

Naval Education and  
Training Command

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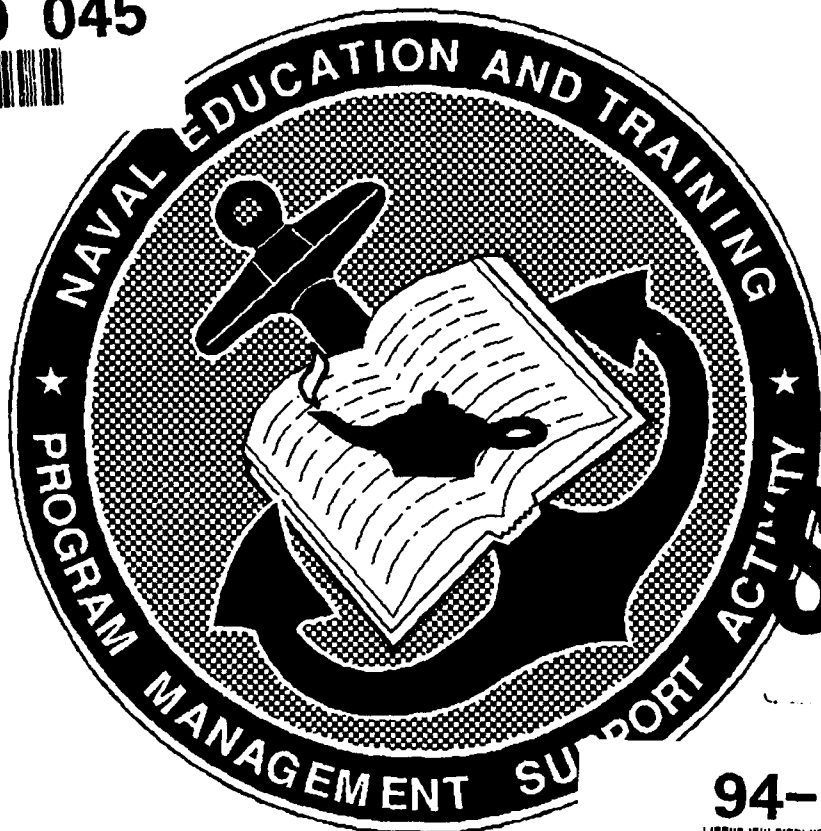
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Publication



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# Catalog of Nonresident Training Courses

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## FOREWORD

This *Catalog of Nonresident Training Courses, 1994 Edition* NAVEDTRA 12061, NSN 0502-LP-478-7400 replaces the following items:

- *Catalog of Nonresident Training Courses, 1993 Edition*, NAVEDTRA 12061 (NSN 0502-LP-476-8300)
- Supplements 93-1 (NSN 0502-LP-476-8301) and 93-2 (NSN 0502-LP-476-8302) to the *Catalog of Nonresident Training Courses, 1993 Edition*.

The Naval Education and Training Program Management Support Activity (NETPMSA) publishes a new edition of this catalog each January, with periodic supplements throughout the year. Each new edition will completely replace the previous edition, and all supplements. Each supplement will incorporate the previous supplement.

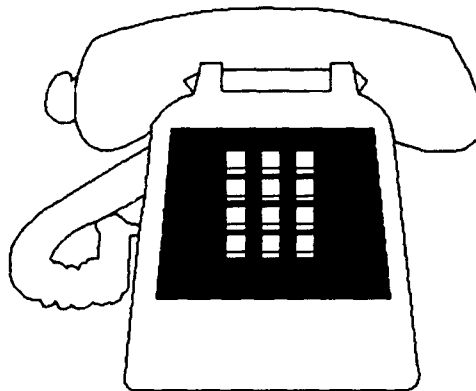
This catalog is designed with you, the user, in mind. It describes professional military and career development courses and specialized courses, explains eligibility requirements and ordering instructions, and provides administering data and general information about nonresident training. Refer to the table on the next page to obtain assistance or offer suggestions.

Accession For	
NTIS	CRA&I <input checked="checked" type="checkbox"/>
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Unannounced	<input type="checkbox"/>
Justification _____	
By _____	
Distribution / _____	
Availability Codes	
Dist	Avail and/or Special
A-1	



## GETTING HELP VIA TELEPHONE

Refer to the table below for telephone numbers you can call to get help with ordering publications from this catalog, or to offer suggestions to make this catalog better.



WHAT YOU NEED HELP WITH	TELEPHONE NUMBER	
Courses (NRTC's) ordered from NETPMSA, Pensacola. (Enrollment Data, Grades, Points, Answer Keys, Answer Sheets, Extensions, etc.).	<u>DSN</u>	<u>COMMERCIAL</u>
	922-1329	904-452-1329
	922-1344	904-452-1344
	922-1366	904-452-1366
	922-1539	904-452-1539
	922-1859	904-452-1859
TRAMANs (Texts), NRTC's (Courses), or Special Publications ordered from ASO, Philadelphia.	a. With AUTODIN: DSN: 442-4067, COMMERCIAL: (215) 697-4064.	
	b. With ordering pubs: DSN: 442-2626 COMMERCIAL: (215) 697-2626	
	c. About the IBM compatible program, or SALTS: DSN 442-1488, COMMERCIAL (215) 697-1488.	
Navy Advancement Exams Shipping: Discrepancies:	<u>DSN</u>	<u>COMMERCIAL</u>
	922-1364	904-452-1364
	922-1199	904-452-1199
Ordering Advancement Handbooks.	<u>DSN</u>	<u>COMMERCIAL</u>
	922-1364	904-452-1364
Getting on distribution for this catalog or its supplements.	<u>DSN</u>	<u>COMMERCIAL</u>
	922-1379	904-452-1379
	922-1558	904-452-1558
The contents of this catalog. (How to use it. How to improve it.)	<u>DSN</u>	<u>COMMERCIAL</u>
	922-1328	904-452-1328

# TABLE OF CONTENTS

<u>PART</u>	<u>PAGE</u>
Foreword . . . . .	i
Getting Help Via Telephone . . . . .	ii
Table of Contents . . . . .	iii
General Information	
Nonresident Training . . . . .	v
Establishing Nonresident Training . . . . .	v
Administration of Nonresident Training . . . . .	v
Nonresident Training Available From Other Services . . . . .	vi
 List of Obsolete Nonresident Training Products . . . . .	 vii
List of Products by NAVEDTRA Number . . . . .	xi
List of Products by Subject/Title . . . . .	xvi
1. General Nonresident Training Products	
Ordering Instructions . . . . .	1-1
 Information About Courses Ordered From ASO Philadelphia . . . . .	 1-6
How to Exceed Quantity Restrictions . . . . .	1-6
Grading Instructions . . . . .	1-6
Answer Keys . . . . .	1-7
 Information About Courses Ordered From NETPMSA . . . . .	 1-8
Order Forms . . . . .	1-8
Classified Courses . . . . .	1-10
Managing Courses . . . . .	1-11
Grading Courses and Answer Sheets . . . . .	1-12
Returning Texts . . . . .	1-14
 General Nonresident Training Products . . . . .	 1-15
2. Cryptologic Technician Nonresident Training Products (NSGTCs/NSGTPs) . . . . .	
3. Naval School of Health Sciences Nonresident Training Products . . . . .	
4. Naval Dental School Nonresident Training Products . . . . .	
5. Shipboard Training Enhancement Program . . . . .	
6. Naval War College Continuing Education . . . . .	
7. Naval Oceanography Command Training Products . . . . .	
8. Foreign and English Nonresident Training Products . . . . .	
9. List of TRAMANs/NRTC's Mandatory for Advancement . . . . .	

## GENERAL INFORMATION

### NONRESIDENT TRAINING

The Chief of Naval Education and Training (CNET) is responsible for providing nonresident training in support of Occupational Standards (OCCSTDs), Naval Standards (NAVSTDs), Personnel Qualification Standards (PQS), Officer Billet Codes (OBC), and other job or billet requirements as directed by the Chief of Naval Operations.

Nonresident training is a self-study package designed to help a student acquire specific knowledge. Normally, a nonresident training package consists of a nonresident training course (NRTC) and a text.

#### Nonresident Training Course (NRTC)

An NRTC may consist of exercises, lessons, or examinations designed to assist the student in acquiring the knowledge contained in an associated text.

#### Texts Associated with NRTCs

The text for an NRTC may be any of the following:

- A training manual (TRAMAN) written specifically to be used as the text for an NRTC.
- An existing manual, directive, or instruction.
- A commercial textbook.

#### Errata

Errata are often used to correct minor errors or delete obsolete information in an NRTC or text. Errata may also be used to provide instructions to the student. Normally, errata are automatically shipped with an NRTC or text.

#### Special Publications (SP)

Special publications are manuals or catalogs that provide information of general benefit to the performance and career development of Navy personnel.

### ESTABLISHMENT OF NONRESIDENT TRAINING

Anyone may propose a new nonresident training package. Proposals should be forwarded to CNET (N3A31) via the originator's chain of command.

### ADMINISTRATION OF NONRESIDENT TRAINING

Nonresident training may be administered by *local* commands or at a *central* location such as the Naval Education and Training Program Management Support Activity (NETPMSA) in Pensacola, Florida.

#### Locally Administered Nonresident Training

Locally administered nonresident training is managed by a command's Education Services Officer (ESO), and is generally applicable to enlisted personnel only. ESO's order nonresident materials from the Aviation Supply Office (ASO) Cog I Support Branch, Philadelphia (formally Navy Publications and Forms Center) through the Navy supply system and administer the materials to local command personnel.

## GENERAL INFORMATION

### Centrally Administered Nonresident Training

Most centrally administered nonresident training is managed by NETPMSA. NETPMSA enrolls students, issues nonresident training materials, tracks student progress, and issues course completion documents.

### CATALOG OF NONRESIDENT TRAINING MATERIALS

The *Catalog of Nonresident Training Courses*, NAVEDTRA 12061, lists nonresident training materials administered at both local and central sites.

### NONRESIDENT TRAINING AVAILABLE FROM OTHER SERVICES

Courses of potential interest to members of all military services are provided under the sponsorship of the Department of Defense. Available to all military personnel, through an interservice agreement, are courses offered by the Air Force, Army, Coast Guard and Marine Corps. Information about nonresident training available from other services is given in the table below. The catalog of a specific service should be checked before applying for enrollment for special procedures and/or eligibility requirements. Personnel interested in subjects given by another service should, THROUGH THEIR LOCAL ESO, correspond with the appropriate agency for up-to-date information.

ORGANIZATION	CATALOG	ADDRESS
Air Force	ECI Catalog (Request catalog on letterhead)	ECT/EDOR Maxwell AFB (Gunter Annex), AL 36118-5643
Army	DA Pamphlet 351-20 (Order by DD-1149)	USA AG Publication Center 2800 Eastern Blvd. Baltimore, MD 21220
Coast Guard	List of Correspondence Courses, E46003 (Request catalog on letterhead)	Commanding Officer U.S. Coast Guard Institute P.O. Substation 18 Oklahoma, OK 73169-6999
Marine Corps	MCI Catalog (Request catalog on letterhead)	Director Marine Corps Institute Arlington, VA 22222

## GENERAL INFORMATION

### LISTING OF OBSOLETE NONRESIDENT TRAINING COURSES (NRTC's)

Answer sheets for the below obsolete NRTC's should not be accepted for processing after the established disenrollment or cut-off date. Students must turn in answer sheets for these NRTC's prior to the disenrollment or cut-off date to receive credit for that edition of the NRTC.

OBSOLETE NAVEDTRA	OBSOLETE TITLE	OBSOLETE DATE	DISENROLLMENT OR CUT-OFF DATE	REPLACEMENT NAVEDTRA
053-08-67-88	STG/STS 1&C, MOD 8	01JUL93	01APR94	82484
063-01-67-87	OTM 1&C, MOD 1	03JAN94	02SEP94	82471
063-02-67-88	OTM 1&C, MOD 2	03JAN94	02AUG94	82471
095-03-44-91	CTTS, MOD 3	10NOV93	10APR94	DISCONTINUED
095-04-44-88	CTTS, MOD 4	13JAN94	13MAY94	684-20-00-94
095-05-44-89	CTTS, MOD 5	13JAN94	13MAY94	DISCONTINUED
095-22-66-92	CTTS, MOD 22	13JAN94	13MAY94	684-31-66-94
095-24-55-89	CTTS, MOD 24	13JAN94	13JUL94	684-25-55-93
095-25-55-90	CTTS, MOD 25	13JAN94	13AUG94	684-26-55-94
10119-B1	NAVY CUSTOMER SERVICE MANUAL	24SEP93	22JAN94	82972
10127-B1	EW 3&2	28JUN93	27MAY94	82478
10135-E	SM 3&2	19AUG92	16FEB94	72104
10136-D	SM 1&C	07MAY93	06MAY94	82104
10185-C1	GMG 3&2	16AUG93	16APR95	82442
10203-1	DS 1&C, VOL 1	18JUN93	17NOV94	DISCONTINUED
10207-1	IS 1&C	11FEB93	10JAN94	82806
10258-G1	PN 1&C	26FEB93	23MAR94	82606
10274-H	DK 3&2 VOL 1	08JAN93	08FEB94	82658
10304-C1	ABF 1&C	08OCT93	08AUG94	82364
10305-D	ABE 1&C	28OCT93	24MAY94	82362
10317-F1	AT 3&2	12JAN94	12AUG94	DISCONTINUED
10369	AG3	24SEP93	22SEP94	82850

## GENERAL INFORMATION

OBSOLETE NAVEDTRA	OBSOLETE TITLE	OBSOLETE DATE	DISENROLLMENT OR CUT-OFF DATE	REPLACEMENT NAVEDTRA
10423	HISTORY OF THE CHAPLAIN CORPS, PART III	08OCT93	08NOV94	13095
10430-2	INTRO TO COBOL	01OCT93	01MAR94	DISCONTINUED
10478-A1	SHIPBOARD EMO	08JAN93	08JUL94	82969
10507-5	PRINCIPLES OF NAVAL ENGINEERING, PART I	11DEC92	11FEB94	82960
10508-4	PRINCIPLES OF NAVAL ENGINEERING, PART II	20NOV92	19FEB94	82960
10541-C2	EN 3&2	11AUG92	06FEB94	82149
10561-1	IC 2&1	10JUN93	10APR94	82161
10584-D1	ML 3&2	03JAN94	03DEC94	82207
10585-C1	ML 1&C	03JAN94	03NOV94	62207
10717-C	INTERNATIONAL LAW	26JUL93	25OCT94	DISCONTINUED
10808-2	NAVAL SAFETY SUPERVISOR	12OCT93	07JUN94	82971
10992-E	ENGINEERING ADMIN	14APR93	01MAY94	82147
13075	COMMUNICATION SECURITY MATERIAL SYSTEM CUSTODIAN	05AUG93	04MAR94	13075-A
172-03-00-85	NEETS, MOD 3	22OCT93	20APR94	82046
80046	MILITARY REQUIREMENTS FOR PO1	02APR93	02FEB94	82046
80109	EW3	28JUN93	27APR94	82478
80120-1	SM	24MAY93	21MAR94	82016
80147-1	OS 1&C	25AUG93	26JUN94	82126
80180	OTM	03JAN94	31JAN95	82471
80192-1	ET 1&C	11AUG92	06MAY94	72410 & 82410

## GENERAL INFORMATION

OBSOLETE NAVEDTRA	OBSOLETE TITLE	OBSOLETE DATE	DISENROLLMENT OR CUT-OFF DATE	REPLACEMENT NAVEDTRA
80289	FTG 1&C	28OCT93	26JUL94	82402
80301	ABF 3&2	08OCT93	08NOV94	72364
80308	AMS 3&2	16NOV93	14FEB95	82338
80353	AW 3&2	08OCT93	04JUN94	DISCONTINUED
80368	AC 1&C	14APR93	13FEB94	82390
80384	AC2	08SEP93	07DEC94	DISCONTINUED
80492	AMH3	16NOV93	14OCT94	82338
80525	MM 1&C	31AUG93	31MAY94	DISCONTINUED
80531	MR 1&C	03JAN94	03JUL94	82204-A
80548	GSM 3&2	07JUN93	07DEC94	82157
80550	GSE 3&2	07MAY93	06NOV94	82153
80578-A	PM 3&2	03JAN94	03MAR95	72207
80579	PM 1&C	03JAN94	03JUN94	62207
80645	CM1	26FEB93	23FEB94	82528
80646	BU 3&2, VOL 1	28OCT93	26OCT94	82520
82204	MR 3&2	03JAN94	03MAR95	72204 & 82204-A
82313	AMH2	16NOV93	14SEP94	82338

## GENERAL INFORMATION

### LISTING OF COURSES BY NAVEDTRA NUMBER

Use the following listing to locate items by NAVEDTRA number.

<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>
010-04-69-90 . . . . .	1-61	10172 . . . . .	1-68	10317-F1 . . . . .	1-20
060-01-45-86 . . . . .	1-17	10173 . . . . .	1-68	10319-A . . . . .	1-24
060-02-41-83 . . . . .	1-18	10176 . . . . .	1-76	10324-A . . . . .	1-21
060-03-45-90 . . . . .	1-18	10177 . . . . .	1-75	10330 . . . . .	1-16
060-04-45-92 . . . . .	1-18	10188 . . . . .	1-45	10335 . . . . .	1-19
095-01-44-90 . . . . .	1-30	10189 . . . . .	1-45	10346 . . . . .	1-22
095-04-44-88 . . . . .	1-30	10193-D . . . . .	1-48	10348-G . . . . .	1-20
095-05-44-89 . . . . .	1-30	10197 . . . . .	1-37	10356 . . . . .	1-24
095-11-44-88 . . . . .	1-30	10215 . . . . .	1-69	10357 . . . . .	1-24
095-13-66-93 . . . . .	1-30	10222 . . . . .	1-72	10358 . . . . .	1-24
095-14-44-89 . . . . .	1-31	10223 . . . . .	1-72	10362-B1 . . . . .	1-15
095-21-55-87 . . . . .	1-31	10228-H1 . . . . .	1-73	10366 . . . . .	1-20
095-22-66-92 . . . . .	1-31	10229-H . . . . .	1-73	10370 . . . . .	1-15
095-23-00-92 . . . . .	1-31	10231 . . . . .	1-33	10371 . . . . .	1-15
095-24-55-89 . . . . .	1-31	10238-A . . . . .	1-61	10376 . . . . .	1-21
095-25-55-90 . . . . .	1-31	10239-A . . . . .	1-74	10380 . . . . .	1-16
095-26-55-91 . . . . .	1-32	10243 . . . . .	1-34	10389 . . . . .	1-24
10049 . . . . .	1-53	10244 . . . . .	1-25	10393-1 . . . . .	1-23
10058-C1 . . . . .	1-47	10249 . . . . .	1-70	10395 . . . . .	1-22
10062 . . . . .	1-54	10250 . . . . .	1-70	10396 . . . . .	1-22
10063 . . . . .	1-55	10255 . . . . .	1-54	10401 . . . . .	1-23
10069-D1 . . . . .	1-54	10256 . . . . .	1-54	10410-B . . . . .	4-1
10073-A1 . . . . .	1-55	10263 . . . . .	1-32	10427-C . . . . .	1-78
10074 . . . . .	1-58	10265-D1 . . . . .	1-32	10436-A1 . . . . .	1-78
10077-F1 . . . . .	1-25	10267-A2 . . . . .	1-55	10448-3 . . . . .	1-54
10079-2 . . . . .	1-50	10268-A . . . . .	1-55	10450-A1 . . . . .	1-55
10090 . . . . .	1-55	10269-K1 . . . . .	1-79	10451 . . . . .	1-52
10101 . . . . .	1-26	10271-1 . . . . .	1-48	10457 . . . . .	1-51
10105 . . . . .	1-69	10272 . . . . .	1-48	10458 . . . . .	1-51
10106 . . . . .	1-69	10273 . . . . .	1-49	10472 . . . . .	1-47
10125-E1 . . . . .	1-82	10275-G . . . . .	1-34	10479-C3 . . . . .	1-75
10126-E . . . . .	1-82	10276-1 . . . . .	1-41	10498 . . . . .	1-23
10139 . . . . .	1-68	10277 . . . . .	1-41	10500 . . . . .	1-27
10141 . . . . .	1-77	10278 . . . . .	1-41	10536-F . . . . .	1-26
10142 . . . . .	1-77	10279 . . . . .	1-41	10539 . . . . .	1-39
10148 . . . . .	1-77	10280 . . . . .	1-40	10543-E1 . . . . .	1-38
10149 . . . . .	1-77	10287-F . . . . .	1-75	10546-F . . . . .	1-35
10153-F . . . . .	1-58	10291 . . . . .	1-45	10547-E . . . . .	1-35
10155 . . . . .	1-58	10292 . . . . .	1-44	10549 . . . . .	1-43
10156 . . . . .	1-57	10293 . . . . .	1-44	10551 . . . . .	1-43
10157 . . . . .	1-73	10296-1 . . . . .	1-50	10552 . . . . .	1-42
10158 . . . . .	1-73	10298 . . . . .	1-83	10559-A . . . . .	1-49
10164-D . . . . .	1-80	10299 . . . . .	1-82	10563 . . . . .	1-43
10166-E . . . . .	1-57	10313-D1 . . . . .	1-23	10564 . . . . .	1-44
10168 . . . . .	1-81				



## GENERAL INFORMATION

<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>
10571-1 . . . . .	1-47	12003 . . . . .	1-75	12390 . . . . .	1-16
10572 . . . . .	1-32	12010-A . . . . .	1-21	12400 . . . . .	1-41
10574 . . . . .	1-46	12011-A . . . . .	1-21	12402 . . . . .	1-40
106-A . . . . .	1-49	12012 . . . . .	1-45	12410 . . . . .	1-35
10600 . . . . .	1-58	12013 . . . . .	1-25	12410 . . . . .	1-36
10601 . . . . .	1-59	12015 . . . . .	1-35	12411 . . . . .	1-36
10624-A1 . . . . .	1-25	12016 . . . . .	1-75	12412 . . . . .	1-36
10628 . . . . .	1-38	12043 . . . . .	1-25	12413 . . . . .	1-36
10629-1 . . . . .	1-38	12044 . . . . .	1-57	12414 . . . . .	1-36
10634-C1 . . . . .	1-38	12045 . . . . .	1-57	12419 . . . . .	1-37
10635-C . . . . .	1-37	12046 . . . . .	1-56	12432 . . . . .	1-57
10636-J . . . . .	1-29	12047 . . . . .	1-56	12435 . . . . .	1-80
10640-J1 . . . . .	1-40	12048 . . . . .	1-56	12442 . . . . .	1-44
10644-G1 . . . . .	1-29	12052 . . . . .	1-25	12471 . . . . .	1-68
10647 . . . . .	1-27	12061 . . . . .	1-27	12478 . . . . .	1-37
10649-G1 . . . . .	1-27	12081 . . . . .	1-78	12480 . . . . .	1-37
10653-G . . . . .	1-78	12085 . . . . .	1-80	12484 . . . . .	1-77
10654-E1 . . . . .	1-78	12102 . . . . .	1-26	12488 . . . . .	1-77
10657-G1 . . . . .	1-81	12104 . . . . .	1-76	12501 . . . . .	1-33
10662 . . . . .	1-81	12122 . . . . .	1-73	12502 . . . . .	1-33
10669-C . . . . .	1-46	12126 . . . . .	1-68	12506 . . . . .	1-33
10670-C . . . . .	1-46	12140 . . . . .	1-26	12511 . . . . .	1-32
10692 . . . . .	1-40	12144 . . . . .	1-53	12520 . . . . .	1-27
10696 . . . . .	1-38	12147 . . . . .	1-37	12523 . . . . .	1-29
10725-B . . . . .	1-60	12149 . . . . .	1-39	12525 . . . . .	1-29
10729-B . . . . .	4-2	12153 . . . . .	1-43	12528 . . . . .	1-29
10732-E2 . . . . .	1-40	12157 . . . . .	1-43	12532 . . . . .	1-81
10738-B1 . . . . .	1-76	12161 . . . . .	1-49	12537 . . . . .	1-39
10763-B . . . . .	4-1	12162 . . . . .	1-49	12570 . . . . .	1-34
10776-A . . . . .	1-79	12202 . . . . .	1-47	12571 . . . . .	1-34
10777 . . . . .	1-35	12204-A . . . . .	1-52	12602 . . . . .	1-72
10792-E . . . . .	1-40	12204-A . . . . .	1-53	12606 . . . . .	1-70
10829-E . . . . .	1-57	12207 . . . . .	1-58	12614 . . . . .	1-82
10835 . . . . .	1-60	12207 . . . . .	1-70	12652 . . . . .	1-79
10883-C . . . . .	1-42	12217 . . . . .	1-69	12655 . . . . .	1-22
10906-4 . . . . .	1-45	12300 . . . . .	1-21	12658 . . . . .	1-34
10907 . . . . .	1-45	12308 . . . . .	1-22	12700 . . . . .	1-71
10921-C . . . . .	1-53	12318 . . . . .	1-23	12706 . . . . .	1-50
10925 . . . . .	1-60	12324 . . . . .	1-21	12800 . . . . .	1-74
10937-B3 . . . . .	1-80	12329 . . . . .	1-20	12806 . . . . .	1-48
10946-B5 . . . . .	1-58	12330 . . . . .	1-20	12810 . . . . .	1-17
10976-D1 . . . . .	1-34	12331 . . . . .	1-20	12850 . . . . .	1-16
10980-F . . . . .	1-79	12334 . . . . .	1-20	12960 . . . . .	1-72
112-A . . . . .	1-51	12338 . . . . .	1-23	12961 . . . . .	1-60
113-A . . . . .	1-45	12360 . . . . .	1-18	12962 . . . . .	1-42
12000 . . . . .	1-17	12362 . . . . .	1-18	12963 . . . . .	1-59
12001 . . . . .	1-42	12364 . . . . .	1-19	12964 . . . . .	1-42
		12370 . . . . .	1-19	12965 . . . . .	1-28

# GENERAL INFORMATION

<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>
12966	1-59	13145	3-1	288-04-55-83	1-52
12967	1-81	13146	4-2	288-06-55-86	1-52
12968	1-52	13147-A	3-2	373-01-00-81	1-62
12969	1-76	13148-A	3-3	373-02-45-83	1-62
12970	1-72	13149	4-1	373-03-45-83	1-62
12971	1-60	13150	4-2	373-04-67-88	1-62
12972	1-61	13151	4-1	38200	1-71
12974	1-53	13152	3-2	38201	1-71
130	1-79	13153	3-2	38202	1-28
130	1-80	13154	3-2	38203	1-28
13004-A	1-74	13157	4-2	38204-A	1-28
13065	1-17	134	1-62	38205-A	1-28
13068	1-61	135	1-63	40180-A	7-1
13070	1-61	14005-A	1-78	40181-A	7-1
13071	1-61	172-02-00-91	1-63	40182-A	7-1
13073	1-81	172-03-00-93	1-63	40183-A	7-1
13074	1-50	172-04-00-92	1-63	40190-A	7-1
13075-A	1-28	172-05-00-79	1-64	40390-A	7-1
13077	1-53	172-06-00-92	1-64	40480-A	7-1
13079	1-68	172-07-00-92	1-64	40501	7-1
13080	1-50	172-08-00-82	1-64	40502	7-1
13081	1-50	172-09-00-83	1-64	40503	7-1
13082	1-62	172-10-00-83	1-65	40504-A	7-1
13083	1-39	172-11-00-87	1-65	40505	7-1
13084	1-76	172-12-00-83	1-65	40506	7-1
13085	1-79	172-13-00-86	1-65	40507-A	7-2
13086	1-73	172-14-00-84	1-65	40508	7-2
13087	1-59	172-15-00-93	1-66	40509	7-2
13088	1-17	172-16-00-84	1-66	40520-A	7-2
13091	1-60	172-17-00-84	1-66	40530	7-2
13092	1-49	172-18-00-84	1-66	40560	7-2
13095	1-46	172-20-00-85	1-67	40570	7-2
13096	1-46	172-21-00-87	1-67	40620	7-2
13097	1-46	172-22-00-88	1-67	40650	7-2
13098	1-56	172-23-00-91	1-67	40850	7-2
13099-D	1-39	172-24-00-92	1-67	40860	7-2
131	1-71	173-01-00-88	1-63	40861	7-2
13100	3-2	173-05-00-82	1-64	40870	7-2
13102-A1	1-59	173-08-00-87	1-64	40871	7-2
13104	4-2	173-09-00-85	1-64	40950	7-2
13116-B	3-3	173-10-00-85	1-65	40970	7-2
13121-D	3-1	173-11-00-85	1-65	40980	7-2
13123-A	3-3	287-01-45-82	1-74	40990	7-3
13128	3-2	287-02-45-81	1-74	40991	7-3
13131	3-1	287-03-45-83	1-75	475-01-00-79	1-56
13134-C	1-25	288-01-55-83	1-51	62207	1-70
13135-F	1-56	288-02-55-87	1-51	683-01-00-91	2-5
13140	4-2	288-03-55-81	1-51	683-02-44-88	2-5

# GENERAL INFORMATION

<u>NAVEDTRA</u>	<u>PAGE</u>
683-04-00-94	2-5
683-05-44-89	2-5
683-06-44-90	2-5
683-07-44-92	2-6
683-09-44-91	2-6
683-10-44-91	2-6
683-11-00-88	2-6
683-12-55-89	2-6
683-13-44-90	2-7
683-14-44-90	2-7
683-15-44-90	2-7
683-16-44-91	2-7
683-19-44-92	2-8
683-20-00-94	2-8
683-21-00-93	2-8
683-22-00-92	2-8
683-23-00-93	2-8
683-24-00-92	2-8
683-25-44-93	2-9
683-26-55-94	2-9
683-31-66-94	2-9
684-01-00-91	2-5
684-02-44-88	2-5
684-03-55-88	2-5
684-04-00-94	2-5
684-05-44-89	2-5
684-06-44-90	2-5
684-07-44-92	2-6
684-08-44-90	2-6
684-09-44-91	2-6
684-10-44-91	2-6
684-11-00-88	2-6
684-12-55-89	2-6
684-13-44-90	2-7
684-14-44-90	2-7
684-15-44-90	2-7
684-16-44-91	2-7
684-17-44-92	2-7
684-18-55-92	2-7
684-19-44-92	2-8
684-20-00-94	2-8
684-21-00-93	2-8
684-22-00-92	2-8
684-23-00-93	2-8
684-24-00-92	2-8
684-25-44-93	2-9
684-26-55-94	2-9
684-31-66-94	2-9
70101	1-26

<u>NAVEDTRA</u>	<u>PAGE</u>
70215-A	1-69
70335	1-19
70574	1-32
71000 Series	1-15
71700	1-15
72104	1-76
72140	1-26
72204	1-53
72207	1-70
72364	1-19
72390	1-16
72410	1-36
80049	1-53
80058	1-47
80062	1-54
80063	1-55
80090	1-55
80101	1-26
80105	1-69
80106	1-69
80126	1-82
80139	1-68
80141	1-77
80142	1-77
80148	1-77
80149	1-77
80153	1-58
80158-1	1-73
80166	1-57
80168	1-81
80172	1-68
80173	1-68
80176	1-76
80177	1-75
80193	1-48
80197-1	1-37
80215-A	1-69
80222	1-72
80223	1-72
80229-A	1-73
80231	1-33
80239	1-74
80249	1-70
80250	1-70
80263	1-32
80268	1-55
80272	1-48
80273	1-49
80275	1-34

<u>NAVEDTRA</u>	<u>PAGE</u>
80277-A	1-41
80278-1	1-41
80279-A	1-41
80287	1-75
80291	1-45
80292	1-44
80293	1-44
80296	1-50
80298	1-82
80299	1-82
80319-A	1-24
80330	1-16
80335	1-19
80346	1-22
80348-A	1-20
80356	1-24
80357	1-24
80358	1-24
80366	1-19
80370	1-15
80371-A	1-15
80376	1-21
80380	1-16
80389	1-24
80395	1-22
80396	1-22
80401	1-23
80451	1-52
80452	1-52
80457	1-51
80458	1-51
80472	1-47
80473	1-47
80479-1	1-75
80498	1-23
80536	1-26
80539	1-39
80546	1-35
80549-1	1-43
80551-1	1-43
80552-1	1-42
80559	1-49
80563	1-43
80564	1-44
80572	1-32
80600-A	1-58
80601	1-59
80624	1-25
80635-1	1-37

# GENERAL INFORMATION

<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>	<u>NAVEDTRA</u>	<u>PAGE</u>
80636	1-29	82330	1-20	82960	1-72
80647	1-27	82331	1-20	82961	1-60
80649	1-27	82334	1-20	82962	1-42
80653	1-78	82338	1-23	82963	1-59
80654	1-78	82360	1-18	82964	1-42
80657-1	1-81	82362	1-18	82965	1-28
80662	1-81	82364	1-18	82966	1-59
80669	1-46	82370	1-19	82969	1-76
80670	1-46	82390	1-16	82970	1-72
80692	1-40	82400	1-41	82971	1-60
80696	1-38	82402	1-40	82972	1-61
80777	1-35	82410	1-35	834	1-62
80829	1-57	82411	1-36	91249-B1	1-46
80835	1-60	82412	1-36	91425-A1	1-54
80883	1-42	82413	1-36	91426-1	1-54
82000	1-17	82414	1-36	91427-A	1-54
82001	1-42	82419	1-37	A60-01-45-86	1-17
82003	1-75	82432	1-57	A60-02-44-88	1-18
82015	1-35	82435	1-80	A60-03-45-90	1-18
82016	1-75	82442	1-44	A60-04-45-92	1-18
82043	1-25	82471	1-68	A95-01-44-90	1-30
82044	1-57	82478	1-37	A95-04-44-88	1-30
82045	1-57	82480	1-37	A95-05-44-89	1-30
82046	1-56	82484	1-77	A95-11-44-88	1-30
82047	1-56	82488	1-77	A95-13-66-93	1-30
82048	1-56	82501	1-33	A95-14-44-89	1-31
82081	1-78	82502	1-33	A95-21-55-87	1-31
82085	1-80	82506	1-33	A95-22-66-92	1-31
82102	1-26	82511	1-32	A95-23-00-92	1-31
82104	1-76	82520	1-27	A95-24-55-89	1-31
82122	1-73	82523	1-29	A95-25-55-90	1-31
82126	1-68	82525	1-29	A95-26-55-91	1-32
82140	1-27	82528	1-29	B72-01-00-92	1-63
82144	1-53	82532	1-81	B72-03-00-93	1-63
82147	1-37	82537	1-39	B72-04-00-92	1-63
82149	1-39	82570	1-34	B72-06-00-92	1-64
82153	1-43	82571	1-34	B72-07-00-92	1-64
82157	1-43	82602	1-72	B72-13-00-86	1-65
82161	1-49	82606	1-70	B72-15-00-93	1-66
82162	1-49	82614	1-82	B72-19-00-92	1-66
82202	1-47	82652	1-79	B72-21-00-87	1-67
82204-A	1-52	82655	1-22	B72-22-00-88	1-67
82207	1-58	82658	1-34	B72-23-00-91	1-67
82217	1-69	82700	1-71	B72-24-00-92	1-67
82300	1-21	82706	1-50	C88-06-55-86	1-52
82308	1-22	82800	1-74		
82318	1-23	82806	1-48		
82324	1-21	82810	1-17		
82329	1-20	82850	1-16		

## GENERAL INFORMATION

### LISTING OF COURSES BY TITLE/SUBJECT MATTER

Use the following listing to locate items by title/subject matter.

<u>TITLE/SUBJECT MATTER</u>	<u>PAGE</u>
3-M Systems . . . . .	1-49
Acoustics and Sound Ray Theory . . . . .	7-2
Admiralty Law . . . . .	1-60
Advancement Handbooks . . . . .	1-15
Aerographer's Mate . . . . .	1-15, 7-1
Air Traffic Controller . . . . .	1-16
Aircrew Survival Equipmentman . . . . .	1-16
Airman . . . . .	1-17
Amphibious Operations . . . . .	1-17
Analysis and Reporting . . . . .	2-5, 2-7
Appropriation and Cost Accounting . . . . .	1-17
Arctic Operations . . . . .	1-58
Armed Conflict . . . . .	1-51
Astronomical and Tidal Data . . . . .	7-1
ASW Sensors and Platforms . . . . .	7-2
Atmospheric Refraction . . . . .	7-1
Automated Communications . . . . .	2-8
Aviation ASW Operator . . . . .	1-17
Aviation Boatswain's Mate . . . . .	1-18
Aviation Electrician's Mate . . . . .	1-19
Aviation Electronics Technician . . . . .	1-20
Aviation Machinist's Mate . . . . .	1-21
Aviation Maintenance Administrationman . . . . .	1-21
Aviation Maintenance Ratings . . . . .	1-21
Aviation Medicine Practice . . . . .	3-1
Aviation Ordnanceman . . . . .	1-22
Aviation Storekeeper . . . . .	1-22
Aviation Structural Mechanic . . . . .	1-23
Aviation Support Equipment Technician . . . . .	1-24
Aviation Warfare Systems Operator . . . . .	1-17
Avionics Technician . . . . .	1-24
Basic Machines . . . . .	1-25
Bathythermograph (BT) Data . . . . .	7-2
Bibliography for Advancement Study . . . . .	1-25
Blood Component Therapy . . . . .	3-1
Blueprint Reading and Sketching . . . . .	1-25
BMR . . . . .	1-25
Boatswain's Mate . . . . .	1-26
Boiler Technician . . . . .	1-26
Builder . . . . .	1-27
CANTRAC . . . . .	1-27
Career Information Program . . . . .	1-61
Catalog of Nonresident Training Courses . . . . .	1-27
Chaplain Corps . . . . .	1-45
Chemical Agent Casualties . . . . .	3-3

# GENERAL INFORMATION

<u>TITLE/SUBJECT MATTER</u>	<u>PAGE</u>
Chief Petty Officer Indoctrination Course . . . . .	1-28
Clinical Aspects of Cold Weather . . . . .	3-2
Collection Management Authority . . . . .	2-6
Collection Operator . . . . .	2-6
Combat Casualty Care for Nurses . . . . .	3-1
Combat Systems and Weapons Department . . . . .	1-28
Command Master Chief . . . . .	1-28
Communications Doctrine . . . . .	1-25
Communications Security Material (CMS) . . . . .	1-28
Construction Electrician . . . . .	1-29
Construction Mechanic . . . . .	1-29
Correspondence Manual . . . . .	1-60
Cryptographic Operator's Manual . . . . .	2-6
Cryptologic Collection Equipments . . . . .	2-6
Cryptologic Operators Manual . . . . .	2-5
Cryptologic Technician . . . . .	1-30, 2-1
Customer Service . . . . .	1-61
Damage Controlman . . . . .	1-32
Data Processing Technician . . . . .	1-32
Data Systems Technician . . . . .	1-33
Decedent Affairs . . . . .	3-2
Dental Assistant . . . . .	1-34
Dental Materials . . . . .	4-1
Dental Technician . . . . .	1-34
Dentures . . . . .	4-1, 4-2
Disbursing Clerk . . . . .	1-34
Ear Training . . . . .	1-34
Educational Services Officer . . . . .	1-35
Electrician's Mate . . . . .	1-35
Electricity and Electronic Training . . . . .	1-63
Electro-optics . . . . .	7-2
Electronic Warfare Officer . . . . .	1-35
Electronics Technician . . . . .	1-35
Electronics Warfare Technician . . . . .	1-37
ELINT Collection Procedures . . . . .	2-7
ELINT Processing . . . . .	2-7
Endodontics . . . . .	4-1
Engineering Administration . . . . .	1-37
Engineering Aid . . . . .	1-37
Engineman . . . . .	1-38
Enlisted Transfer . . . . .	1-39
Equal Opportunity . . . . .	1-39
Equipment Operator . . . . .	1-39
Financial Management in the Navy . . . . .	1-40
Fire Control Technician . . . . .	1-40
Fire Controlman . . . . .	1-41
Fireman . . . . .	1-42
First Aid . . . . .	1-78

# GENERAL INFORMATION

<u>TITLE/SUBJECT MATTER</u>	<u>PAGE</u>
Fleet Operations . . . . .	2-8
Fluid Power . . . . .	1-42
Food Service Sanitation . . . . .	3-2
Forecasting Mid-Latitudes . . . . .	7-1
Gas Turbine System Technician . . . . .	1-42
Gunner's Mate . . . . .	1-44
Harmony . . . . .	1-45
Heat Stress . . . . .	3-2
HFDF . . . . .	2-5
Hospital Corpsman . . . . .	1-46
Hull Maintenance Technician . . . . .	1-46
Human Behavior . . . . .	1-47
Illustrator Draftsman . . . . .	1-47
Immunization Program . . . . .	3-2
Instructional Theory . . . . .	1-62
Instrumentman . . . . .	1-47
Intelligence Specialist . . . . .	1-48
Interior Communications Electrician . . . . .	1-49
Interservice Procedures for ISD . . . . .	1-49
Investigations . . . . .	1-50
Journalist . . . . .	1-50
Legalman . . . . .	1-51
Lithographer . . . . .	1-52
Lookout Training . . . . .	1-52
Machinery Repairman . . . . .	1-52
Machinist's Mate . . . . .	1-53
Management Fundamentals . . . . .	1-53
Maneuvering Board . . . . .	1-53
Mapping, Charting, and Geodesy . . . . .	7-3
Marine Navigation . . . . .	1-53
Master-At-Arms . . . . .	1-54
Mathematics, . . . . .	1-54
Mess Management Specialist . . . . .	1-55
Message Drafting . . . . .	1-56
Message (The) . . . . .	2-8
Meteorology . . . . .	1-50
Metric System . . . . .	1-56
Military Justice . . . . .	1-56
Military Personnel Manual . . . . .	1-59
Military Requirements . . . . .	1-25, 1-56
Military Sealift Command . . . . .	1-57
Mineman . . . . .	1-57
Missile Technician . . . . .	1-57
Molder . . . . .	1-58
Music . . . . .	1-25
Naval Engineering . . . . .	1-72
Naval Construction Force . . . . .	1-58
Naval Control of Shipping . . . . .	1-59

## GENERAL INFORMATION

<u>TITLE/SUBJECT MATTER</u>	<u>PAGE</u>
Naval Cryptology in National Security . . . . .	2-5
Naval Intelligence . . . . .	1-42
Naval Operations Analysis . . . . .	1-59
Naval Orientation . . . . .	1-59
Naval Space . . . . .	1-60
Navigation Rules Flash Cards . . . . .	1-60
NAVOSH . . . . .	1-58
Navy Counselor . . . . .	1-61
Navy Instructor . . . . .	1-62
Navy Regulations . . . . .	1-62
NEETS . . . . .	1-63
Newly Commissioned Officers . . . . .	1-81
Occlusion . . . . .	4-1
Ocean Systems Technician . . . . .	1-68
Oceanography . . . . .	1-68
Operations Specialist . . . . .	1-68
Operative Dentistry . . . . .	4-2
Opticalman . . . . .	1-69
Oral Diagnosis . . . . .	4-2
Oral Surgery . . . . .	4-2
Ordnance and Gunnery . . . . .	1-72
Patternmaker . . . . .	1-70
Periodontics . . . . .	4-2
Personnel Performance Profile . . . . .	1-71
Personnelman . . . . .	1-70
Petroleum . . . . .	1-42
Petty Officer Indoctrination Course . . . . .	1-71
Pharmacotherapeutics . . . . .	4-2
Photographer's Mate . . . . .	1-62
Photography . . . . .	1-71
Physical Exam/Health Care Treatment Records . . . . .	3-3
Postal Clerk . . . . .	1-72
Postal Officer . . . . .	1-60
Principles of Epidemiology . . . . .	3-3
Programming in BASIC . . . . .	1-50
Public Affairs . . . . .	1-73
Quartermaster . . . . .	1-73
Radio Wave Modulation . . . . .	2-7
Radiography . . . . .	4-2
Radioman . . . . .	1-73
Refrigeration Systems . . . . .	1-74
Religious Program Specialist . . . . .	1-74
Safety Supervisor . . . . .	1-60
Satellite Imagery . . . . .	7-2
School Management . . . . .	1-63
SCI Security and Emergency Destruction . . . . .	2-6
Sea and Swell Forecasting . . . . .	7-2
Seabee Combat . . . . .	1-75



# GENERAL INFORMATION

<u>TITLE/SUBJECT MATTER</u>	<u>PAGE</u>
Seaman . . . . .	1-75
Security Program . . . . .	1-50
Ship's Serviceman . . . . .	1-75
Shipboard Electronics Material Officer . . . . .	1-76
Shiphandling . . . . .	1-76
Ships Store Afloat . . . . .	1-76
Signalman . . . . .	1-76
Sonar Technician . . . . .	1-77
Sound Powered Telephone . . . . .	1-78
Standard Organization and Regulations of the U.S. Navy . . . . .	1-78
Steelworker . . . . .	1-78
Storage and Materials Handling . . . . .	1-78
Storekeeper . . . . .	1-79
Supply Afloat . . . . .	1-79
Supply Ashore . . . . .	1-79
Surf Forecasting . . . . .	7-2
Surface Chart Analysis . . . . .	7-2
Surface Ship Operations . . . . .	1-79
Theoretical Damage Control . . . . .	1-80
Time Conversion . . . . .	1-31
Tools And Their Uses . . . . .	1-80
Synoptic Report . . . . .	7-1
Task Based Curriculum . . . . .	1-79
Technical Control . . . . .	2-8
Torpedoman's Mate . . . . .	1-80
Tower Visibility Observation . . . . .	7-1
Tropical Streamline Analysis . . . . .	7-2
Tropical Synoptic Models . . . . .	7-2
Utilitiesman . . . . .	1-81
Watch Officer . . . . .	1-81
Weapons Technician . . . . .	1-82
Yeoman . . . . .	1-82

# PART 1

## GENERAL NONRESIDENT TRAINING

### ORDERING INSTRUCTIONS

The following steps explain how to order a nonresident training product from **PART 1**.

**STEP 1:** Find the product by thumbing through the list of products (products are listed alphabetical by title), or by referring to the List of Products by NAVEDTRA Number or List of Products by Title/Subject. Note the Ordering Instruction Number (#) and any Per Order Quantity Restrictions.

*Standard First Aid Training Course*  
NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82081  
NSN: 0503-LP-215-9200  
ASSIGNMENTS: 9 POINTS: 12

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12081  
NSN: 0503-LP-215-9100

A basic reference in the field of first aid.

SEE ORDERING INSTRUCTION #1 ←

PER ORDER QUANTITY RESTRICTION: 50 ←

<u>ORDERING INSTRUCTION</u>	<u>PAGE NUMBER</u>
#1	1-3
#2	1-4
#3	1-5

**STEP 2:** Go to the page listing the ordering instruction. Read the left column of the ordering instruction box to determine eligibility status. Ordering instructions are in the adjacent column.

WHO IS ELIGIBLE	HOW TO ORDER
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**STEP 3:** **BEFORE** making an order, read the General Ordering Instructions, and Administration Instructions for courses ordered from ASO Philadelphia and administered by local ESOs or courses ordered from, and administered by, NETPMSA, as applicable.

# GENERAL NONRESIDENT TRAINING

## GENERAL ORDERING INSTRUCTIONS

### GENERAL INFORMATION

- Refer to NAVSUP 2002 (Series) for additional ordering information.

### MATERIAL ORDERED FROM ASO PHILADELPHIA

- Each item stocked at ASO Philadelphia (NRTC, TRAMAN, TRAMAN/NRTC, ERRATA, etc.) must be ordered separately by Navy Stock Number (NSN).
- Each item stocked at ASO Philadelphia has a Per Order Quantity Restriction. To exceed this quantity restriction, refer to the administration instructions for local ESOs on page 1-6. (The Per Order Quantity Restriction at NETPMSA is always 1.)

### MATERIAL ORDERED FROM NETPMSA

- Enrollment requests to NETPMSA must include a UIC number.
- Orders from NETPMSA will include ADP answer sheets and associated texts (TRAMANS, etc.), unless otherwise specified.
- NETPMSA will not issue texts (TRAMANS, Commercial, etc.) by themselves. Texts only, with NSNs listed in this catalog may be ordered from ASO Philadelphia. Check the NAVSUP 2002 (Series) for all other texts.
- NETPMSA will not accept applications for CLASSIFIED materials unless accompanied by a letter from the ordering command certifying that the student has the appropriate clearance and need-to-know. Letter must be on command letterhead paper signed by the commanding officer or "By direction".
- NETPMSA will not process conventional or copied answer sheets.
- NETPMSA will not verify completion of NRTCs administered by local commands.
- Commercial textbooks issued from NETPMSA must be returned to obtain credit for course work.

# GENERAL NONRESIDENT TRAINING

## ORDERING INSTRUCTION #1

WHO IS ELIGIBLE	HOW TO ORDER												
<p>Navy <b>enlisted</b> active duty or drilling Navy enlisted Reserve</p> <p><b>NOTE:</b></p> <p>Items ordered from <u>ASO</u> should be administered by local ESOs to <u>ENLISTED</u> personnel only.</p>	<ol style="list-style-type: none"> <li>1. By NAVY STOCK NUMBER (NSN) from: Aviation Supply Office (ASO) Cog I Support Branch Philadelphia, PA 19111-5098</li> <li>2. Transmit requirements to ASO in MILSTRIP format. Transmissions should be made to the Defense Automatic Addressing System Office (DAASO) using communication routing indicator (COMMRI) RUC1ZZA.</li> <li>3. If you do not have AUTODIN, submit requirements using full MILSTRIP in message format to Defense Automatic Addressing System (DAAS), Dayton, OH.</li> <li>4. If you do not have AUTODIN or message capability, you may obtain an IBM compatible program for MILSTRIP generation from ASO. MILSTRIP may also be submitted through SALTS</li> <li>5. For assistance at ASO: <ol style="list-style-type: none"> <li>a. With AUTODIN: (DSN) 442-4067, Commercial (215) 697-4064.</li> <li>b. With ordering publications: (DSN) 442-2626, Commercial (215) 697-2626.</li> <li>c. About the IBM compatible program, or SALTS: (DSN) 442-1488, Commercial (215) 697-1488.</li> </ol> </li> </ol>												
<ul style="list-style-type: none"> <li>• Naval officers on active duty</li> <li>• Naval Reservists</li> <li>• Midshipmen and members of NROTC and NJROTC</li> <li>• Active duty members of other branches of the Armed Forces</li> <li>• Reservists of other branches of the Armed Forces</li> <li>• U.S. Armed Forces retirees</li> <li>• Officer candidates and junior officer candidates of other branches of the Armed Forces</li> <li>• Naval Sea Cadets</li> <li>• DoD civilian employees</li> <li>• Members of the Naval and Marine Corps Military Affiliated Radio System (MARS)</li> <li>• Members of the Royal Canadian Armed Forces</li> <li>• Members of other Armed Forces of U.S. allies (may obtain courses through the Foreign Military Sales agreement)</li> <li>• Other U.S. government employees</li> </ul>	<ol style="list-style-type: none"> <li>1. By NRTC NAVEDTRA NUMBER from: Commanding Officer Naval Education and Training Program Management Support Activity (Code 074) Pensacola, Florida 32559-5000</li> <li>2. Order on Application for Enrollment Form (NAVEDTRA Form 1510/1).</li> <li>3. Who CANNOT order <u>classified courses</u>: <ol style="list-style-type: none"> <li>a. Non-drilling Reserve personnel.</li> <li>b. Retirees not employed by DoD.</li> <li>c. NROTC, NJROTC, and Naval Sea Cadets.</li> </ol> </li> <li>4. ALL applications must include a UIC. (Reserve Unit UICs not accepted.) Drilling Reserves must use Reserve Center's UIC.</li> <li>5. For assistance at NETPMSA, call: <table data-bbox="743 1459 1156 1659"> <thead> <tr> <th><u>DSN</u></th><th><u>COMMERCIAL</u></th></tr> </thead> <tbody> <tr> <td>922-1329</td><td>904-452-1329</td></tr> <tr> <td>922-1344</td><td>904-452-1344</td></tr> <tr> <td>922-1366</td><td>904-452-1366</td></tr> <tr> <td>922-1539</td><td>904-452-1539</td></tr> <tr> <td>922-1859</td><td>904-452-1859</td></tr> </tbody> </table> </li> </ol>	<u>DSN</u>	<u>COMMERCIAL</u>	922-1329	904-452-1329	922-1344	904-452-1344	922-1366	904-452-1366	922-1539	904-452-1539	922-1859	904-452-1859
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922-1859	904-452-1859												

# GENERAL NONRESIDENT TRAINING

## ORDERING INSTRUCTION #2

(ADMINISTERED BY NETPMSA ONLY)

WHO IS ELIGIBLE	HOW TO ORDER												
<ul style="list-style-type: none"> <li>• Active duty Navy personnel</li> <li>• Naval Reservists</li> <li>• Midshipmen and members of NROTC and NJROTC</li> <li>• Active duty members of other branches of the Armed Forces</li> <li>• Reservists of other branches of the Armed Forces</li> <li>• U.S Armed Forces retirees</li> <li>• Officer candidates and junior officer candidates of other branches of the Armed Forces</li> <li>• Naval Sea Cadets</li> <li>• DoD civilian employees</li> <li>• Members of the Naval and Marine Corps Military Affiliated Radio System (MARS)</li> <li>• Members of the Royal Canadian Armed Forces</li> <li>• Members of other Armed Forces of U.S. allies (may obtain courses through the Foreign Military Sales agreement)</li> <li>• Other U.S. government employees</li> </ul>	<ol style="list-style-type: none"> <li>By NRTC NAVEDTRA NUMBER from:  Commanding Officer NETPMSA Code 074 6490 Saufley Field Road Pensacola Florida 32559-5000</li> <li>Order on Application for Enrollment Form (NAVEDTRA Form 1510/1).</li> <li>Who CANNOT order <u>classified courses</u>: a. Non-drilling Reserve personnel. b. Retirees not employed by DoD. c. NROTC, NJROTC, and Naval Sea Cadets.</li> <li>ALL applications must include a UIC. (Reserve Unit UICs not accepted.) Drilling Reserves must use Reserve Center's UIC.</li> <li>For assistance at NETPMSA, call:   <table> <tr> <td><u>DSN</u></td><td><u>COMMERCIAL</u></td></tr> <tr> <td>922-1329</td><td>904-452-1329</td></tr> <tr> <td>922-1344</td><td>904-452-1344</td></tr> <tr> <td>922-1366</td><td>904-452-1366</td></tr> <tr> <td>922-1539</td><td>904-452-1539</td></tr> <tr> <td>922-1859</td><td>904-452-1859</td></tr> </table> </li> </ol>	<u>DSN</u>	<u>COMMERCIAL</u>	922-1329	904-452-1329	922-1344	904-452-1344	922-1366	904-452-1366	922-1539	904-452-1539	922-1859	904-452-1859
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922-1539	904-452-1539												
922-1859	904-452-1859												

# GENERAL NONRESIDENT TRAINING

## ORDERING INSTRUCTION #3

WHO IS ELIGIBLE	HOW TO ORDER
<ul style="list-style-type: none"><li>● Active duty Navy personnel</li><li>● Naval Reservists</li><li>● Midshipmen and members of NROTC and NJROTC</li><li>● Active duty members of other branches of the Armed Forces</li><li>● Reservists of other branches of the Armed Forces</li><li>● U.S. Armed Forces retirees</li><li>● Officer candidates and junior officer candidates of other branches of the Armed Forces</li><li>● Naval Sea Cadets</li><li>● DoD civilian employees</li><li>● Members of the Naval and Marine Corps Military Affiliated Radio System (MARS)</li><li>● Members of the Royal Canadian Armed Forces</li><li>● Members of other Armed Forces of U.S. allies (may obtain courses through the Foreign Military Sales agreement)</li><li>● Other U.S. government employees</li></ul>	<ol style="list-style-type: none"><li>1. By NAVY STOCK NUMBER (NSN) from:  Aviation Supply Office (ASO) Cog I Support Branch Philadelphia, PA 19111-5098</li><li>2. Transmit requirements to ASO in MILSTRIP format. Transmissions should be made to the Defense Automatic Addressing System Office (DAASO) using communication routing indicator (COMMRI) RUC1ZZA.</li><li>3. If you do not have AUTODIN, submit requirements using full MILSTRIP in message format to Defense Automatic Addressing System (DAAS), Dayton, OH.</li><li>4. If you do not have AUTODIN or message capability, you may obtain an IBM compatible program for MILSTRIP generation from ASO. MILSTRIP may also be submitted through SALTS</li><li>5. For assistance at ASO:<ol style="list-style-type: none"><li>a. With AUTODIN: (DSN) 442-4067, Commercial (215) 697-4064.</li><li>b. With ordering publications: (DSN) 442-2626, Commercial (215) 697-2626.</li><li>c. About the IBM compatible program, or SALTS: (DSN) 442-1488, Commercial (215) 697-1488.</li></ol></li></ol>

## GENERAL NONRESIDENT TRAINING

### INFORMATION ABOUT COURSES ORDERED FROM ASO PHILADELPHIA

The following information applies to nonresident training courses that are ordered from ASO Philadelphia and administered by local ESOs.

#### INFORMATION ABOUT COURSES ORDERED FROM ASO PHILADELPHIA

<p><b>HOW TO EXCEED QUANTITY RESTRICTIONS AT ASO PHILADELPHIA</b></p>	<ol style="list-style-type: none"> <li>1. Send requisitions on DD Form 1348 or MILSTRIP to:  <div style="margin-left: 40px;">                     Commanding Officer                      NETPMSA Code 03A2                      6490 Saufley Field Road                      Pensacola Florida 32509-5237                 </div> </li> <li>2. Requisitions must include justification for excess orders. DD Form 1348 submissions must be accompanied by letter on command letterhead signed by the commanding officer or "By direction".</li> </ol>
<p><b>GRADING INSTRUCTIONS</b></p>	<ol style="list-style-type: none"> <li>1. ESOs will ONLY grade nonresident training courses that are administered at the local command to enlisted personnel. Courses for officers must be graded by NETPMSA.</li> <li>2. ESOs will insure that proper service record entries are made upon course completion.</li> <li>3. A Grading Table, NAVEDTRA 1430/4, may be ordered from ASO by NSN 0502-LP-218-2100. The Grading Table may be reproduced locally.</li> </ol>
<p><b>STUDENTS MAY:</b></p>	<ol style="list-style-type: none"> <li>1. Refer freely to texts and reference materials.</li> <li>2. Seek advice and instructions from others, but answers submitted must be their own.</li> <li>3. Students MAY NOT refer to or copy the solutions of others, or give completed solutions to anyone else taking the same course.</li> </ol>
<p><b>INFORMATION ABOUT ANSWER SHEETS</b></p>	<ol style="list-style-type: none"> <li>1. One answer sheet is provided in the back of each NRTC. This sheet may be duplicated for locally administered courses only.</li> <li>2. Answer Sheets, NAVEDTRA 1430/5, may be ordered from ASO by NSN 0502-LP-216-0100.</li> <li>3. Resubmit Answer Sheets, NAVEDTRA 1430/3, may be ordered from ASO by NSN 0502-LP-218-0600. Resubmit Answer Sheet may be reproduced locally.</li> </ol>

## GENERAL NONRESIDENT TRAINING

### INFORMATION ABOUT COURSES ORDERED FROM ASO PHILADELPHIA (Continued)

<p><b>HOW TO ORDER ANSWER KEYS</b></p>	<ol style="list-style-type: none"> <li>1. NETPMSA makes an initial automatic distribution of answer keys for new/revised courses to Personnel Support Activity Detachments (PSADs). Answer key packages are identified by the NAVEDTRA NUMBER of the NRTC or TRAMAN/NRTC. All commands get Answer Keys for general courses (BMR, PO3, etc.). Answer Keys for courses for specific ratings go only to commands having those ratings in their manpower listing.</li> <li>2. Order additional answer keys from: <p style="margin-left: 40px;"> <b>Commanding Officer</b>  <b>NETPMSA Code 074</b>  <b>6490 Sauflley Field Road</b>  <b>Pensacola Florida 32559-5000</b> </p> </li> <li>3. Answer keys must be ordered by NAVEDTRA NUMBER. (Navy Stock Numbers (NSN) are listed on Answer Keys for information purposes only.) Orders must be signed by the <b>commanding officer</b>, or "<b>By direction</b>", and submitted on command letter head paper.</li> <li>4. NETPMSA will NOT provide answer keys for courses that are obsolete, discontinued, superseded, or for courses administered only by NETPMSA.</li> </ol>
<p><b>HOW TO CONTROL ANSWER KEYS</b></p>	<ol style="list-style-type: none"> <li>1. Answer keys must be controlled and maintained by a <b>commissioned officer, ESO, or designated official</b> at all times.</li> <li>2. Original copies and locally duplicated copies of answer keys require the same security as advancement examinations.</li> <li>3. Report loss of answer keys in the same manner as reporting a lost advancement examination.</li> <li>4. Destroy answer keys in accordance with local instructions for destroying classified material.</li> <li>5. The following practices are authorized: <ol style="list-style-type: none"> <li>a. Sub-custody of answer keys to division officers.</li> <li>b. Grading by enlisted personnel under the direct and continuous supervision of a commissioned officer or ESO.</li> </ol> </li> </ol>



## GENERAL NONRESIDENT TRAINING

### INFORMATION ABOUT COURSES ORDERED FROM NETPMSA

The following information applies to nonresident training courses that are ordered from, and administered by, NETPMSA.

### INFORMATION ABOUT COURSES ORDERED FROM NETPMSA

WHAT ORDER FORM TO USE	<ol style="list-style-type: none"> <li>1. Use Application for Enrollment/Change Request, NAVEDTRA Form 1510/1 (4-85).</li> <li>2. DD Form 1556 WILL NOT BE ACCEPTED.</li> </ol>
HOW TO OBTAIN FORM 1510/1	<ol style="list-style-type: none"> <li>1. Form 1510/1 is available ONLY from NETPMSA.</li> <li>2. To order, submit requests on command letterhead paper, signed by the commanding officer or "By direction" to: <p style="text-align: center;">Commanding Officer NETPMSA Code 074 6490 Saufley Field Road Pensacola Florida 32559-5000</p> </li> <li>3. Include justification for orders in excess of 500.</li> </ol>
GENERAL INSTRUCTIONS ABOUT FORM 1510/1	General instructions are included on the NAVEDTRA Form 1510/1. (Figure 1 on the next page shows pages 1 and 2 of a completed 1510/1.)
ADDITIONAL INSTRUCTIONS ON FORM 1510/1	<ol style="list-style-type: none"> <li>1. Make sure the written letter or number at the top of each column matches the corresponding darkened circle in that column.</li> <li>2. Provide complete address information. Fill out both the address section and the UIC section.</li> <li>3. USNR personnel should use the UIC for their Reserve Center. Reserve Unit UICs are NOT acceptable.</li> <li>4. Reservists working courses for retirement points, and drilling reservists MUST mark their status blocks "INACTIVE".</li> <li>5. DO NOT use page 1 from one application form and page 2 from another form. Each form has a unique serial number marked on both pages; these must match to ensure processing.</li> <li>6. DO NOT fold or staple applications.</li> <li>7. ESOs should review all applications for correctness before submission. 75% of applications received at NETPMSA must be hand corrected before processing.</li> </ol>

[illegible]

MAILING ADDRESS										CITY	STATE	ZIP CODE																					
U	S		U	N	D	E	R	M	A	Y	D	D	G	H	Z	I	S	T	D	I	V	F	P	C	A	E	3	2	9	3	5	0	0

☐ FILL IN EITHER THE MAILING ADDRESS, CITY, STATE, AND ZIP CODE OR YOUR PERMANENT DUTY STATION UNC FOR YOUR MAILING ADDRESS INCLUDING DIV OR DEPT CODE.  
☐ ALL CLASSIFIED COURSES REQUIRE THE UNC ADDRESS.  
☐ UNC APPLIES ONLY TO NAVY PERSONNEL OTHER SERVICES LEAVE BLANK, BUT PROVIDE COMMAND TITLE AND ADDRESS ON ADDRESS LINE.

PERMANENT DUTY STATION			
6	2	2	0

SIGNATURE

THIS APPLICATION HAS BEEN REVIEWED BY COMMAND EDUCATIONAL SERVICES OFFICE

1342023

DO NOT WRITE IN THIS SPACE

1-9

# GENERAL NONRESIDENT TRAINING

## INFORMATION ABOUT COURSES ORDERED FROM NETPMSA (Continued)

<p>HOW TO APPLY FOR UNCLASSIFIED COURSES</p>	<ol style="list-style-type: none"> <li>1. Forward applications to NETPMSA, via the student's chain of command, such as a local active duty command, Naval Reserve Center, or Naval Aviation Reserve Unit.</li> <li>2. Special situations: <ol style="list-style-type: none"> <li>a. Submit applications for <i>non-drilling</i> reservists to NETPMSA, via:  Naval Reserve Personnel Center (NRPC) 4400 Dauphine St. New Orleans, LA 70149</li> <li>b. Submit applications for <i>reservists living in foreign countries</i> to NETPMSA, via (1) the cognizant military attache, or (2) the activity holding the student's service record.</li> </ol> </li> </ol>
<p>HOW TO APPLY FOR CLASSIFIED COURSES</p>	<ol style="list-style-type: none"> <li>1. Applications must include a letter from the students's activity certifying the students's security clearance and need-to-know.</li> <li>2. Accompanying letter must be submitted on command letterhead paper and signed by the commanding officer or "By direction".</li> </ol>
<p>INFORMATION ABOUT CLASSIFIED COURSES</p>	<ol style="list-style-type: none"> <li>1. Classified courses are released ONLY to the custody of the students's commanding officer. Reserve units commanded by inactive reserve officers DO NOT qualify for custody.</li> <li>2. Classified courses must be stowed and controlled in the same manner as other classified material.</li> <li>3. Individual Ready Reserve (IRR) personnel cannot enroll in classified courses, or courses with Distribution Statements other than "A".</li> </ol>
<p>INFORMATION ABOUT DISTRIBUTION STATEMENTS</p>	<ol style="list-style-type: none"> <li>1. Courses with distribution statements other than "A" will only be shipped to commands with UIC addresses.</li> <li>2. Courses with distribution statements will be handled according to applicable security instructions.</li> </ol>

## GENERAL NONRESIDENT TRAINING

### INFORMATION ABOUT COURSES ORDERED FROM NETPMSA (Continued)

HOW TO MANAGE UNUSED COURSES	<ol style="list-style-type: none"> <li>1. Unless as noted in item 3 below, students CANNOT lend or share their course materials.</li> <li>2. Unused course materials, along with a completed disenrollment form, should be returned to NETPMSA.</li> <li>3. To issue unused course materials to a non-enrolled student: (1) Notify NETPMSA by letter requesting that the original enrolled student be disenrolled and a new student be enrolled. (2) Include full identification of both students and a completed NAVEDTRA 1510/1 for the new student.</li> </ol>
WHAT STUDENTS MAY DO:	<ol style="list-style-type: none"> <li>1. Students may:                         <ol style="list-style-type: none"> <li>a. Refer to texts and reference materials.</li> <li>b. Seek advice and instruction from others, but solutions must be their own.</li> </ol> </li> <li>2. Students may not:                         <ol style="list-style-type: none"> <li>a. Refer to or copy solutions of others.</li> <li>b. Give solutions to others taking the same course.</li> </ol> </li> </ol>
COURSE COMPLETION DATES	<ol style="list-style-type: none"> <li>1. The course completion date is the date the last assignment is processed by NETPMSA's ADP system.</li> <li>2. Reserve personnel should mail their answer sheets at least 30 days before their anniversary date if they are taking a course for retirement points.</li> </ol>
HOW MUCH TIME IS ALLOWED	<ol style="list-style-type: none"> <li>1. Course must be completed at the rate of 1 assignment per month, per course. For example, a student enrolled in 2 different courses will be expected to submit at least 2 assignments per month -- 1 for each course he/she is enrolled in.</li> <li>2. Students will be disenrolled unless NETPMSA receives a completed assignment within 6 months after enrollment, unless granted an extension.</li> </ol>
HOW TO REQUEST AN EXTENSION	<ol style="list-style-type: none"> <li>1. Submit written requests for extensions to:                         <p style="margin-left: 40px;">Commanding Officer NETPMSA Code 074 6490 Saufley Field Road Pensacola Florida 32559-5000</p> </li> <li>2. Extensions are automatically granted by submitting a completed assignment then continuing to follow the one-assignment-per-month schedule.</li> <li>3. Extensions will NOT be granted for obsolete or superseded courses.</li> </ol>

# GENERAL NONRESIDENT TRAINING

## INFORMATION ABOUT COURSES ORDERED FROM NETPMSA (Continued)

<p>INFORMATION ABOUT COURSE GRADING</p>	<ol style="list-style-type: none"> <li>1. The passing score for all assignments and courses is 3.2.</li> <li>2. Students are required to rework failed assignments.</li> <li>3. The maximum score on reworked assignments is 3.2.</li> <li>4. Failed assignments do not have to be reworked in cases where an overall passing grade is obtained even after averaging in the failed assignment.</li> </ol>
<p>WHAT ANSWER SHEETS MAY BE USED AND HOW TO FILL THEM OUT</p>	<ol style="list-style-type: none"> <li>1. Correspondence Course Standard Answer Sheet, NAVEDTRA Form 1510/4 (provided with each course) is the ONLY answer sheet accepted by NETPMSA.</li> <li>2. Do not use reproductions of NAVEDTRA Form 1510/4. (Figure 2 on the next page shows pages 1 and 2 of a completed 1510/4.)</li> <li>3. Precautions: <ol style="list-style-type: none"> <li>a. Pay special attention to blocks 1-3.</li> <li>b. Make sure darkened circles match characters at the tops of the columns. Do not mark circles for blank spaces.</li> <li>c. The "changes" section, including block 4, is ONLY for changes or corrections to the NAME and ADDRESS blocks. SSN block is for NETPMSA use only.</li> <li>d. The number in block 3 must be the NAVEDTRA number found on the ASSIGNMENT BOOKLET.</li> <li>e. Leave spaces for deleted questions BLANK.</li> <li>f. Use a soft lead pencil (#1 or #2) and ensure all marks are dark. DO NOT use ink.</li> </ol> </li> </ol>
<p>HOW TO MAIL ANSWER SHEETS TO NETPMSA</p>	<ol style="list-style-type: none"> <li>1. Mail answer sheets in envelopes supplied by the student or the local ESO. If possible use large envelopes and mail answer sheets without folding.</li> <li>2. If folded, fold on designated fold lines. Do not staple.</li> <li>3. Do not mail answer sheets with textbooks.</li> <li>4. Mail to: <p style="text-align: center;">Commanding Officer NETPMSA Code 074 6490 Saufley Field Road Pensacola Florida 32559-5000</p> </li> </ol>

## GENERAL NONRESIDENT TRAINING

[illegible][illegible]

**Figure 2.--NAVEDTRA 1510/4 Correspondence Course Answer Sheet**

## GENERAL NONRESIDENT TRAINING

### INFORMATION ABOUT COURSES ORDERED FROM NETPMSA (Continued)

<b>HOW TO RETURN COMMERCIAL TEXTS TO NETPMSA</b>	<ol style="list-style-type: none"><li>1. Students are accountable for safeguarding and returning commercial textbooks.</li><li>2. Students must reimburse the government for the cost of a book that is not returned and cannot be accounted for.</li><li>3. Keep commercial textbooks until receiving results from all course assignments.</li><li>4. Before returning commercial textbooks, complete the Material Credit Form (forwarded with each course) and attach to the inside front cover of the textbook.</li><li>5. Return commercial textbooks by certified mail, registered mail, book rate mail (return receipt for merchandise (PS Form 3804)), or by private carrier, requesting a return receipt. Include the text serial number (found inside the front cover) on the return receipt form.</li><li>6. Mail commercial textbooks to:  Commanding Officer NETPMSA Code 074 6490 Saufley Field Road Pensacola Florida 32559-5000</li></ol>
<b>HOW TO CORRESPOND WITH NETPMSA</b>	<ol style="list-style-type: none"><li>1. Include student's full name, SSN, and address when corresponding with NETPMSA about student grades, status, or other matters.</li><li>2. Mail correspondence to:  Commanding Officer NETPMSA Code 074 6490 Saufley Field Road Pensacola Florida 32559-5000</li></ol>

## GENERAL NONRESIDENT TRAINING

### ***Advancement Handbook for Apprenticeships*** NAVEDTRA NUMBER: 71700

This handbook contains information on the Navy Advancement System, advancement paths for apprenticeships, and bibliographies for advancement study. Enlisted E-2 personnel preparing for advancement to E-3 should have a personal copy of the handbook.

**Special Information:** The Naval Education and Training Program Management Support Activity sends an ordering letter and form to commanding officers/officers in charge in February or March. Commands should order handbooks based on the number of nonrated enlisted personnel assigned plus 10% for each year. Commands requiring additional handbooks during the year should send requests to:

COMMANDING OFFICER  
NETPMSA CODE 0322  
6490 SAUFLEY FIELD RD.  
PENSACOLA FL 32509-5237

### ***Advancement Handbooks for Petty Officers*** NAVEDTRA NUMBER: 71000 Series

These handbooks (one for each rating) contain information on the Navy Advancement System, bibliographies for advancement study, and Personnel Advancement Requirements (PARs). Enlisted members preparing for advancement should have a personal copy of the handbook for their rating. Upon issue, the member is responsible for maintaining the handbook.

**Special Information:** The Naval Education and Training Program Management Support Activity sends an ordering letter and form to commanding officers/officers in charge in February or March. Commands should order handbooks based on the number of enlisted personnel assigned in each rating plus 10% for each year. Commands requiring additional handbooks during the year should send requests to:

COMMANDING OFFICER  
NETPMSA CODE 0322  
6490 SAUFLEY FIELD RD.  
PENSACOLA FL 32509-5237

### ***Aerographer's Mate 1 & C*** TRAMAN/NRTC EDITION: 1985 NAVEDTRA NUMBER: 10362-B1 NSN: 0502-LP-051-8115 ASSIGNMENTS: 14 POINTS: 28

Provides advanced subject matter coverage of: world climate and weather; atmospheric physics; atmospheric circulation; air masses, fronts, and cyclones; surface weather map analysis; upper air analysis; forecasting upper air systems; forecasting surface systems; cloudiness, precipitation, and temperature forecasting; forecasting thunderstorms, fog, tornadoes, icing, and contrails; tropical analysis and forecasting; weather briefing and flight forecasting; sea surface forecasting; ocean thermal structure forecasting and ASWEPS; special observations and

forecasts; maintenance of meteorological equipment; maintenance of augmenting meteorological oceanographic equipment; radiosonde and rawinsonde equipment maintenance and calibration; and administration, training, and communications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aerographer's Mate Second Class, Vol 1*** NRTC EDITION: 1988 NAVEDTRA NUMBER: 80370 NSN: 0503-LP-213-7900 ASSIGNMENTS: 10 POINTS: 18

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10370  
NSN: 0502-LP-213-5900

This TRAMAN is the first of two volumes that provide Aerographer's Mate Second Class with occupational information in the following areas: world climate and weather; atmospheric physics; atmospheric circulation; air masses, fronts, and cyclones; surface weather map analysis; upper-air analysis; tropical analysis; and satellite, radar, and LDATS (Lighting Detection and Tracking System) interpretation. This TRAMAN is the first of two volumes that provide Aerographer's Mate Second Class with occupational information in the following areas: world climate and weather; atmospheric physics; atmospheric circulation; air masses, fronts, and cyclones; surface weather map analysis; upper-air analysis; tropical analysis; and satellite, radar, and LDATS (Lighting Detection and Tracking System) interpretation.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Aerographer's Mate Second Class, Vol 2*** NRTC EDITION: 1992 NAVEDTRA NUMBER: 80371-A NSN: 0503-LP-218-6200 ASSIGNMENTS: 8 POINTS: 18

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10371  
NSN: 0502-LP-212-9800

This volume provides information on the following areas: oceanography, oceanography analysis, fundamentals of hydroacoustics, meteorological and oceanographic products and their interpretation, special products and computations, briefing techniques, administration and publications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10



## GENERAL NONRESIDENT TRAINING

### ***Aeorographer's Mate Third Class***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82850  
NSN: 0503-LP-476-9100  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12850  
NSN: 0502-LP-476-8900

This course serves as an introduction to surface weather observations, surface weather observation equipment, surface weather observation codes, upper air observations, bathythermograph observations, miscellaneous observations, satellite imagery acquisition, environmental communications, plotting standards, and computer systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Air Traffic Controller 1 & C***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82390  
NSN: 0503-LP-219-2600  
ASSIGNMENTS: 7 POINTS: 11

### ***Air Traffic Controller***

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12390  
NSN: 0502-LP-219-1100

Emphasizes advanced subject matter coverage of: planning procedures and flight clearance office services; procedures for operating a naval ATC facility; procedures used in normal and emergency air traffic control situations (ashore and afloat); and the organization, administration, and management of an ATC division. Emphasizes advanced subject matter coverage of: planning procedures and flight clearance office services; procedures for operating a naval ATC facility; procedures used in normal and emergency air traffic control situations (ashore and afloat); and the organization, administration, and management of an ATC division.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Air Traffic Controller 2***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 72390  
NSN: 0503-LP-219-2700  
ASSIGNMENTS: 12 POINTS: 18

### ***Air Traffic Controller***

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12390  
NSN: 0502-LP-219-1100

Presents an overview of the AC rating to include: Federal Aviation Regulations; meteorology; weather reports, forecasts, and advisories; military aircraft characteristics and performance; air navigation; aids to air navigation; flight

assistance services; airport lighting, markings, and equipment; air traffic communications; control tower operations and equipment; IFR/SVFR control procedures; radar principles, equipment, and operations; and shipboard air control operations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aircrew Survival Equipmentman 1 & C***

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 80330  
NSN: 0503-LP-500-2300  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10330  
NSN: 0502-LP-051-6710

This training material provides information to satisfy the occupational needs of Aircrew Survival Equipmentmen in these areas: sewing machine repair; maintenance of carbon dioxide transfer equipment; oxygen system component test equipment; aircraft-mounted oxygen-breathing regulators; miniature-type oxygen-breathing regulators; aircraft liquid oxygen converters; survival procedures and search and rescue equipment. This training material provides information to satisfy the occupational needs of Aircrew Survival Equipmentmen in these areas: sewing machine repair; maintenance of carbon dioxide transfer equipment; oxygen system component test equipment; aircraft-mounted oxygen-breathing regulators; miniature-type oxygen-breathing regulators; aircraft liquid oxygen converters; survival procedures and search and rescue equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Aircrew Survival Equipmentman 2***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80380  
NSN: 0503-LP-214-1800  
ASSIGNMENTS: 10 POINTS: 10

ERRATA #1 DATED: 1993  
NSN: 0503-LP-214-1801

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10380  
NSN: 0502-LP-214-0200

Provides information for the PR rate. Fundamental subject matter coverage of: personnel parachute familiarization; automatic opening devices; NES-12 personnel parachute system; protective equipment; rescue and survival equipment; inflatable survival equipment, seat survival kit; carbon dioxide; sewing machines; fabrication and manufacture; oxygen test stands and oxygen related components. Provides information for the PR rate. Fundamental subject matter coverage of: personnel parachute familiarization; automatic opening devices; NES-12 personnel parachute system; protective equipment;

## GENERAL NONRESIDENT TRAINING

rescue and survival equipment; inflatable survival equipment, seat survival kit; carbon dioxide; sewing machines; fabrication and manufacture; oxygen test stands and oxygen related components.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Airman**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82000  
NSN: 0503-LP-213-0300  
ASSIGNMENTS: 11 POINTS: 17

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12000  
NSN: 0502-LP-213-0200

Presents an overview of naval aviation to the new Navy person and includes subject matter coverage of: mission and history of naval aviation; organization of naval aviation; principles of fight; aircraft basic construction; aircraft hardware; aircraft power plants; aircraft avionics; aircraft ordnance; support equipment and line operations; aircrew survival equipment; and crash rescue, fire fighting, and safety. Presents an overview of naval aviation to the new Navy person and includes subject matter coverage of: mission and history of naval aviation; organization of naval aviation; principles of fight; aircraft basic construction; aircraft hardware; aircraft power plants; aircraft avionics; aircraft ordnance; support equipment and line operations; aircrew survival equipment; and crash rescue, fire fighting, and safety.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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### **Amphibious Operations**

NRTC EDITION: 1994  
NAVEDTRA NUMBER: 13065  
ASSIGNMENTS: 3 POINTS: 5

This course is intended as an introduction to the problems involved in coordinating the actions and efforts of personnel engaged in amphibious operations.

Special information: The text for this course, *Joint Doctrine for Amphibious Operations*, Joint Pub 3-02, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION # 2

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### **Appropriation and Cost Accounting**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 13088  
ASSIGNMENTS: 6 POINTS: 9

ERRATA #2 DATED: 1992

Presents an overview of types of accounting procedures consistent with guidelines promulgated by the Comptroller

of the Navy; provides for identification of appropriation, cost, and property accounting procedures applicable to various financial transactions in the Navy.

Special Information: The text for this course, excerpts from *Navy Comptroller Manual, Volume 2 and Volume 3*, Vol 2 with changes through 340, 27 Sept 89, and Vol 3 with changes through 354, 25 Aug 89, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **Aviation Warfare Systems Operator 1 & C**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82810  
NSN: 0503-LP-477-2600  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12810  
NSN: 0502-LP-477-2400

This course covers information on aircrew administration and training; aviation safety; operations and exercises; and mission support procedures. It replaces two older AW 1&C modules in their entirety. The information is designed to help the AW1 and AWC perform the daily administrative duties involved in the AW division of any ASW squadron.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION # 1  
PER ORDER QUANTITY RESTRICTION: 15

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### **Aviation ASW Operator 3 & 2, Aircrew Duties**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 060-01-45-86  
NSN: 0507-LP-060-0105  
ASSIGNMENTS: 2 POINTS: 3

ERRATA #2 DATED: 1991  
NSN: 0507-LP-060-0106

### **Aviation ASW Operator 3 & 2, Module 1--Aircrew Duties**

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: A60-01-45-86  
NSN: 0507-LP-060-0100

This module covers the basic information needed for the AWA/H/N 3 and 2 to perform flight crew duties. The subjects covered include security, communications, recognition, ASW stores, SAR, and publications. This module covers the basic information needed for the AWA/H/N 3 and 2 to perform flight crew duties. The subjects covered include security, communications, recognition, ASW stores, SAR, and publications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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## GENERAL NONRESIDENT TRAINING

### **Aviation ASW Operator 3, Radar and MAD**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 060-02-44-88  
NSN: 0507-LP-001-3180  
ASSIGNMENTS: 5 POINTS: 5

### **Aviation ASW Operator 3, Module 2--Radar and MAD**

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: A60-02-44-88  
NSN: 0507-LP-001-3170

This module covers radar principles, radar navigation, radar tactics, IFF/SIF, magnetic theory, MAD equipment, operations, and MAD tactics for personnel in the AW rating.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Aviation ASW Operator 3 & 2, ESM and IR**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 060-03-45-90  
NSN: 0507-LP-212-3300  
ASSIGNMENTS: 7 POINTS: 8

### **Aviation ASW Operator 3 & 2, Module 3--ESM and IR**

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: A60-03-45-90  
NSN: 0507-LP-212-3200

This module covers introduction to electronic warfare, fundamentals of radar, emitter characteristics, threat emitters and weapons systems, electronic warfare publications, airborne ASW ESM systems, ESM tactics and contact reporting procedures, introduction to infrared, infrared ASW systems, and infrared tactics. These subject areas are designed to aid nonacoustic antisubmarine operators in developing their skills.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Aviation ASW Operator 3 & 2, Fundamentals of Acoustic ASW**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 060-04-45-92  
NSN: 0507-LP-215-5600  
ASSIGNMENTS: 7 POINTS: 11

### **Aviation ASW Operator 3 & 2, Module 4--Fundamentals of Acoustic ASW**

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: A60-04-45-92  
NSN: 0507-LP-215-4900

Provides information on the physics of sound, sound travel, environmental prediction systems, acoustic systems, and acoustic tactics.

Special Information: WARNING! This course is classified SECRET/WNINTEL/NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Aviation Boatswain's Mate E 1 & C**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82362  
NSN: 0503-LP-477-6100  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12362  
NSN: 0502-LP-477-5900

Provides information in the following areas: launch and recovery equipment administration and training; quality assurance administration; maintenance planning; launch and recovery equipment troubleshooting; special tests; maintenance inspections; catapult systems and equipment overhaul, and recovery equipment overhaul procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Aviation Boatswain's Mate E 3 & 2**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82360  
NSN: 0503-LP-216-2600  
ASSIGNMENTS: 4 POINTS: 8

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12360  
NSN: 0502-LP-216-2400

The objective of this course is to provide the Aviation Boatswain's Mate E with information on the duties and responsibilities of ABE personnel in launching and recovering aircraft; maintenance tools and equipment; description, operation, and maintenance of MK 7 arresting gear and C-7/C-11 and C-13 catapults; general procedures involved in the preparation, operation, and maintenance of various types of emergency recovery equipment afloat; description, operation, maintenance, and inspection of steam catapults; functions and operation of catapult associated equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Aviation Boatswain's Mate F 1 & C**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82364  
NSN: 0503-LP-477-2900  
ASSIGNMENTS: 4 POINTS: 6

### **Aviation Boatswain's Mate F**

## GENERAL NONRESIDENT TRAINING

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12364  
NSN: 0502-LP-477-2700

This course contains information on afloat and ashore fuels division organization, general maintenance equipment, quality surveillance, JP-5 afloat below deck systems and operations, JP-5 afloat flight deck systems and operations, afloat lube oil and MOGAS systems and operations, ashore systems and operations, and administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aviation Boatswain's Mate F 3 & 2***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 72364  
NSN: 0503-LP-477-2800  
ASSIGNMENTS: 6 POINTS: 9

### ***Aviation Boatswain's Mate F***

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12364  
NSN: 0502-LP-477-2700

This course serves as an introduction to afloat and ashore fuels division organization, general maintenance equipment, quality surveillance, JP-5 afloat below deck systems and operations, JP-5 afloat flight deck systems and operations, afloat lube oil and MOGAS systems and operations, ashore systems and operations, and administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aviation Boatswain's Mate H 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82370  
NSN: 0503-LP-476-5600  
ASSIGNMENTS: 2 POINTS: 3

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12370  
NSN: 0502-LP-476-5400

Provides information on the following subjects: characteristics of the amphibious assault ship crash crane; hoisting systems; slings; aircraft-handling personnel duties; organization of aircraft salvage operations; aircraft rescue procedures; salvage planning; quality assurance; administrative reports; and emergency arresting gear maintenance.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aviation Boatswain's Mate H 2***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 70335  
NSN: 0503-LP-212-8200  
ASSIGNMENTS: 2 POINTS: 3

### ***Aviation Boatswain's Mate H 3 & 2***

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10335  
NSN: 0502-LP-001-1620

ERRATA #1 DATED: 1992  
NSN: 0502-LP-001-1621

The ABH rating and division organization afloat; tools, equipment, general maintenance, and supply procedure, aircraft handling, support, and crash and salvage equipment, aircraft handling aboard air-capable ships and on shore stations; fire fighting and damage control; aircraft crashes on shore stations; and shore base emergency gear and related equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aviation Boatswain's Mate H 3***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80335  
NSN: 0503-LP-001-1630  
ASSIGNMENTS: 6 POINTS: 10

### ***Aviation Boatswain's Mate H 3 & 2***

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10335  
NSN: 0502-LP-001-1620

ERRATA #1 DATED: 1992  
NSN: 0502-LP-001-1621

Provides fundamental information in the following subject matter areas: ABH rating and division organization afloat; tools, equipment, general maintenance, and supply procedures; aircraft handling, support, and crash and general maintenance, and supply procedures; aircraft handling, support, and crash and salvage equipment; aircraft handling aboard carriers (CVs/CVNs) and on shore stations; aircraft handling aboard (LHA/LPD/LHD) ships; aircraft carriers (CVs/CVNs) fire fighting and damage control; aircraft crashes aboard carriers; aircraft crashes on shore stations; and shore base emergency arresting gear (E-5/E-28) and related equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Aviation Electrician's Mate 1***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80366  
NSN: 0503-LP-217-8900  
ASSIGNMENTS: 5 POINTS: 12

TRAMAN EDITION: 1988

## GENERAL NONRESIDENT TRAINING

NAVEDTRA NUMBER: 10366  
NSN: 0502-LP-217-7400

This training manual provides information to satisfy the occupational needs of Aviation Electrician's Mate First Class in the following areas: analog computation, digital computers, inertial navigation, air data computer, and automatic flight control and stabilization systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Aviation Electrician's Mate 3 & 2***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80348-A  
NSN: 0503-LP-213-5800  
ASSIGNMENTS: 10 POINTS: 12

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10348-G  
NSN: 0502-LP-213-5700

This TRAMAN will enable the AE3 and AE2 to demonstrate knowledge of the minimum occupation information by answering items about the following areas: basic physics electrical maintenance and troubleshooting, power generation and control systems, aircraft power plant electrical systems, aircraft instruments, compass and inertial navigation systems, and automatic flight control and stabilization systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Aviation Electronics Technician 1 (Organizational)***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82331  
NSN: 0503-LP-477-0800  
ASSIGNMENTS: 10 POINTS: 15

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12331  
NSN: 0502-LP-477-0700

This course provides information on communications, navigation, radar, antisubmarine warfare, indicators, infrared, weapons systems, computers, automatic carrier landing system, and the electrostatic discharge program.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### ***Aviation Electronics Technician 2 (Organizational)***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82330  
NSN: 0503-LP-214-5800  
ASSIGNMENTS: 6 POINTS: 12

TRAMAN EDITION: 1991

NAVEDTRA NUMBER: 12330  
NSN: 0502-LP-214-5700

By completing this course, you will demonstrate a knowledge of the subject matter included in the following areas: displays, radar, fire control, IFF, air navigation, communications, data link, electronic countermeasures, electronic support measures, weapons control, and ASW acoustic and recorder systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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### ***Aviation Electronics Technician 3***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82329  
NSN: 0503-LP-214-7700  
ASSIGNMENTS: 9 POINTS: 12

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12329  
NSN: 0502-LP-214-7600

By completing the NRTC, you will demonstrate knowledge of the following subject matter: physics; infrared, lasers, and fiber optics; analog fundamentals; digital computers; aviation systems fundamentals and support equipment; avionics maintenance; avionics drawings, schematics, handtools, and materials; test equipment; and safety and security.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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### ***Aviation Electronics Technician 3 & 2***

TRAMAN/NRTC EDITION: 1986  
NAVEDTRA NUMBER: 10317-F1

\*\*\*THIS ITEM HAS BEEN DELETED\*\*\*

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### ***Aviation Electronics Technician AT2(I)***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82334  
NSN: 0503-LP-214-5600  
ASSIGNMENTS: 10 POINTS: 15

ERRATA #1 DATED: 1992  
NSN: 0503-LP-214-5601

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12334  
NSN: 0502-LP-214-5400

## GENERAL NONRESIDENT TRAINING

Provides information on servo systems, logic devices, communications, navigation systems, antisubmarine warfare (ASW), radar circuits, optic and infrared systems, television, computers, and programming, waveform interpretation, and automatic test equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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**Aviation Machinist's Mate 1 & C**  
TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 10324-A  
NSN: 0502-LP-051-6210  
ASSIGNMENTS: 4 POINTS: 6

This training material provides information to satisfy the occupational needs of the Aviation Machinist's Mate in these areas: fuel system maintenance; power plant troubleshooting; power plant repair; propeller maintenance; and jet engine testing and operation.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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**Aviation Machinist's Mate 3 & 2**  
NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82300  
NSN: 0503-LP-214-6300  
ASSIGNMENTS: 11 POINTS: 17

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12300  
NSN: 0502-LP-214-6100

This training material provides sufficient basic information to satisfy the occupational needs of the aviation machinist's mate in the following areas: jet engine theory and design; tools and hardware; aviation support equipment; jet aircraft fuel and fuel systems; jet aircraft engine lubrication systems; engine and airframe related systems; helicopters and turboshaft power plants; turboprop engines and propellers; power plant troubleshooting; and power plant inspection, repair, and testing.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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**Aviation Maintenance Administrationman 1**  
NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80376  
NSN: 0503-LP-220-3400  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #1 DATED: 1992  
NSN: 0503-LP-220-3401

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10376  
NSN: 0502-LP-219-9200

This training manual contains information on the following subjects: the Naval Aviation Maintenance Program (NAMP), maintenance/production control, aircraft logs and records, the central technical publications library, quality assurance/analysis, and maintenance administration/training.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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**Aviation Maintenance Administrationman 3 & 2**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82324  
NSN: 0503-LP-214-7800  
ASSIGNMENTS: 7 POINTS: 12

ERRATA #1 DATED: 1993  
NSN: 0503-LP-214-7801

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12324  
NSN: 0502-LP-214-6900

This manual provides knowledge in the following areas: the Naval Aviation Maintenance Program (NAMP); maintenance administration; quality assurance/analysis; technical publications library; maintenance/production control; aircraft logs, records, and reports; and aeronautical equipment logs, records, and reports.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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**Aviation Maintenance Ratings Fundamentals**

TRAMAN/NRTC EDITION: 1992  
NAVEDTRA NUMBER: 12010-A  
NSN: 0502-LP-219-0700  
ASSIGNMENTS: 6 POINTS: 9

The TRAMAN and NRTC package provides information on subject matter that relates directly to the occupational standards of the following nine aviation ratings; AD, AE, AME, AMH, AMS, AO, AS, AT, and PR. The NRTC provides the usual method to satisfy the requirements for completing a TRAMAN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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**Aviation Maintenance Ratings Supervisor**

TRAMAN/NRTC EDITION: 1993  
NAVEDTRA NUMBER: 12011-A  
NSN: 0502-LP-478-6100  
ASSIGNMENTS: 7 POINTS: 11

The TRAMAN and NRTC provide information on subject matter that relates directly to the occupational

## GENERAL NONRESIDENT TRAINING

standards of the following ten aviation ratings: AD, AE, AME, AMH, AMS, AO, AS, AT, AZ, and PR.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### **Aviation Ordnanceman 1**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80346  
NSN: 0503-LP-220-4800  
ASSIGNMENTS: 6 POINTS: 9

ERRATA #2 DATED: 1992  
NSN: 0503-LP-220-4802

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10346  
NSN: 0502-LP-220-3300

This training manual provides information to satisfy the occupational needs of the Aviation Ordnanceman in the following areas: Aviation Ordnanceman rating, aviation ordnance publications, management and certification, ammunition storage and handling, ammunition administration, and air strike preparation.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### **Aviation Ordnanceman 3 & 2**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82308  
NSN: 0503-LP-213-1900  
ASSIGNMENTS: 17 POINTS: 24

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12308  
NSN: 0502-LP-213-1800

This training manual provides information to satisfy the needs of Aviation Ordnancemen in the following areas: explosives and ammunition; aircraft bomb information and associated components; bomb fuzes and associated components; air-launched guided missiles, guided missile launchers, and guided missile handling equipment; pyrotechnics; underwater weapons; M61A1 automatic gun installation and loading equipment; aerial targets and associated equipment; ammunition handling equipment; suspension, arming, and releasing equipment; ammunition storage, handling, and conventional weapons assembly; aircraft loading/unloading procedures; aircraft weapons systems; and aircraft weapons systems test equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### **Aviation Storekeeper C**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80396  
NSN: 0503-LP-220-6400  
ASSIGNMENTS: 13 POINTS: 20

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10396  
NSN: 0502-LP-220-4900

This training manual covers the duties and responsibilities of the AK supervisor, administrative duties, procedures for storage and materials handling, management of aviation material, material procurement, financial management, material receipt and expenditures, inventory management, and safety and inspection programs.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### **Aviation Storekeeper 1**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80395  
NSN: 0503-LP-212-9700  
ASSIGNMENTS: 9 POINTS: 12

ERRATA #1 DATED: 1991  
NSN: 0503-LP-212-9701

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10395  
NSN: 0502-LP-212-7900

This training material covers the enlisted rating structure and advancement requirements for the AK rating; administrative duties and responsibilities; use and maintenance of applicable publications; applications of automatic data processing to supply procedures; inventory management; receipt, custody, and storage of materials; aviation material management; and movement of material.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### **Aviation Storekeeper 2**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82655  
NSN: 0503-LP-216-2800  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12655  
NSN: 0502-LP-216-2700

Provides knowledge of procedures that are performed by naval personnel in the area of supply. It includes a description of the administration of supply functions, publications used in performing supply functions, financial control, storage of supplies, stock control, purchasing of

## GENERAL NONRESIDENT TRAINING

supplies, material control procedures, supply support, and special programs having aviation storekeeper input.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Aviation Storekeeper 3**

TRAMAN/NRTC EDITION: 1985  
NAVEDTRA NUMBER: 10393-1  
NSN: 0502-LP-051-9655  
ASSIGNMENTS: 12 POINTS: 18

ERRATA #1 DATED: 1991  
NSN: 0502-LP-051-9656

Presents the fundamentals of naval aviation supply with practical application used throughout the course. It describes the organization and functions of aviation supply activities and administrative procedures employed in daily work; provides an introduction to office machines; describes the numbers and codes used in the identification of material; describes the procedures involved in stock control, including the levels of supply, mechanized procedures afloat, procurement, follow up, material expenditure, and receiving; describes methods and procedures for the storage and handling of material; and describes the Naval Aviation Maintenance Program procedures as they apply to supply support.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Aviation Structural Mechanic E 1 & C**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82318  
NSN: 0503-LP-214-4100  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12318  
NSN: 0502-LP-214-3900

By completing this course, you will demonstrate a knowledge of the following subject matter: management, safety, and supervision; electrically operated canopy systems; utility systems; air-conditioning systems; and the Navy aircrew common ejection seat (NACES).

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Aviation Structural Mechanic E 2**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80401  
NSN: 0503-LP-213-8300  
ASSIGNMENTS: 9 POINTS: 15

ERRATA #2 DATED: 1993  
NSN: 0503-LP-213-8302

TRAMAN EDITION: 1989

NAVEDTRA NUMBER: 10401  
NSN: 0502-LP-213-6300

This training material provides basic information concerning utility systems, canopy systems, pressurization and air-conditioning systems, oxygen systems, oxygen support equipment, and ejection seat systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Aviation Structural Mechanic H 1 & C**

TRAMAN/NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10313-D1  
NSN: 0502-LP-216-3200  
ASSIGNMENTS: 4 POINTS: 6

This training material provides information to satisfy the occupational needs of the Aviation Structural Mechanic H in these areas: general hydraulic system maintenance; fixed wing flight controls; helicopter flight controls; utility hydraulic systems; landing gear systems; and brake systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### **Aviation Structural Mechanic (H & S) 3 & 2**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82338  
NSN: 0503-LP-477-4100  
ASSIGNMENTS: 14 POINTS: 21

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12338  
NSN: 0502-LP-477-3900

This course provides information on aircraft construction and materials, aircraft hardware and seals, general aircraft maintenance, hydraulic contamination and related servicing, test equipment, hose fabrication and maintenance, tubing fabrication and maintenance, basic power systems, fixed-wing flight control systems, rotary-wing flight control systems, aircraft wheels, tires and tubes, landing gear, brakes, and hydraulic utility systems, aircraft metallic repair, aircraft nonmetallic repair, and nondestructive inspections, welding, and heat treatment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### **Aviation Structural Mechanic S 1**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80498  
NSN: 0503-LP-221-0300  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10498  
NSN: 0502-LP-220-8100



## GENERAL NONRESIDENT TRAINING

This training material provides information to satisfy the occupational needs of the Aviation Structural Mechanic S 1 in these areas: heat treatment; nondestructive inspections (NDI); welding; advanced composite material repair; and fixed-wing and helicopter flight controls.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### **Aviation Support Equipment Technician 1**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80358  
NSN: 0503-LP-214-5100  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10358  
NSN: 0502-LP-214-3400

Emphasizes the organizational and intermediate level maintenance and repair of aviation support equipment; aviation supply system; work center supervision and administration; reciprocating internal combustion engine, chassis electrical, and transmission/drive train analysis and repair; electrical power generating systems and hydraulic and pneumatic system maintenance; gas turbine compressor (engines); gas turbine compressor (engines) repairs; air-conditioning and refrigeration systems; gaseous oxygen and nitrogen systems; shipboard aircraft emergency equipment; and shipboard planned maintenance system fundamentals.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Aviation Support Equipment Technician 2**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80357  
NSN: 0503-LP-220-3600  
ASSIGNMENTS: 9 POINTS: 9

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10357  
NSN: 0502-LP-219-9300

Provides fundamental subject matter coverage of: support equipment; servicing and maintenance; chassis and brake systems; power train; internal combustion engines; diesel engines; automotive electrical systems; power generating systems; air-conditioners; gas turbine compressors; oxygen and nitrogen equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Aviation Support Equipment Technician 3**

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80356  
NSN: 0503-LP-500-2560  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #1 DATED: 1993

NSN: 0503-LP-500-2561

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10356  
NSN: 0502-LP-051-7730

Provides basic information to beginners in the AS rate to include fundamental SE shop organization and shop procedures. Also includes the rate structure and a short history of the AS rate. Fundamental subject matter coverage of: Support Equipment; Servicing and Maintenance; Tools and Test Equipment; Automotive Accessories; Power Generating Equipment and Systems; Air-conditioning Systems; Supply; Naval Aviation Maintenance Program; Materials and Hardware; and Support Equipment Training.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Avionics Technician 1 & C**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80389  
NSN: 0503-LP-214-1400  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10389  
NSN: 0502-LP-213-9800

This course provides information to the Avionics Technician (AQ, AT, AX) in the following areas: electrical/electronic noise, radar, communications, navigation, lasers, automatic flight control and stabilization, weapons, and tactical display and computer systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### **Avionics Technician (AQ/AT/AX) 3 & 2**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80319-A  
NSN: 0503-LP-500-2192  
ASSIGNMENTS: 10 POINTS: 20

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10319-A  
NSN: 0502-LP-051-6010

Provides information on avionics-related elementary physics, basic theory of analog and digital computers, radar principles, doppler navigation principles, infrared principles, aviation maintenance practices and related safety precautions, avionics test equipment, aircraft electrical power and support equipment, avionics handtools and material, and security considerations applicable to the AQ, AT, and AX ratings.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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## GENERAL NONRESIDENT TRAINING

### **Basic Communications Doctrine**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 13134-C  
ASSIGNMENTS: 3 POINTS: 5

Familiarizes the enrollee with basic communications doctrine as it relates to communications organization, communications preparedness, general communications procedures, communications procedures for operating forces and for warfare, specific communications procedures, and unique communications systems.

**Special Information:** WARNING! This course is classified CONFIDENTIAL. The text for this course, *Basic Operational Communications Doctrine, NWP 4 (Rev. B)*. This text is NOT supplied by NETPMSA and must be obtained locally. Local availability of text must be verified before enrollment.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 1

### **Basic Machines**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80624  
NSN: 0503-LP-001-1660  
ASSIGNMENTS: 4 POINTS: 8

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10624-A1  
NSN: 0502-LP-001-1580

This course covers simple machines: levers; block and tackle; wheel and axle; inclined plane and wedge; screws, gears; the principles of mechanical advantage, work, force, pressure and power; the functions of basic machines, machine elements; hydraulic and hydrostatic machines; and the elements of the internal combustion engine, power trains and basic computer mechanisms.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Basic Military Requirements**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82043  
NSN: 0503-LP-216-0800  
ASSIGNMENTS: 9 POINTS: 14

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12043  
NSN: 0502-LP-216-0700

ERRATA #1 DATED: 1993  
NSN: 0502-LP-216-0701

Provides subject matter related to all nonrated personnel. Provides information on our heritage; naval history; naval organization; customs and courtesies; policies and programs; human resources; naval uniforms; professional development; drill; naval ships and aircraft; safety; seamanship; damage control; chemical, biological, and radiological defense; surface preservation; small arms; survival; first aid and

personal hygiene; watch standing and communications; security requirements; and international agreements.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 200

### **Basic Music**

SP EDITION: 1980  
NAVEDTRA NUMBER: 10244  
NSN: 0502-LP-051-2200

Basic principles of music and musical instruments.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### **Basic Music (Navy)**

SP EDITION: 1991  
NAVEDTRA NUMBER: 12013  
NSN: 0502-LP-215-5900

Supplement to BASIC MUSIC, NAVEDTRA 10244; contains information on media, form, and conducting as it relates to Navy musician.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### **Bibliography for Advancement Study (1994 Edition)**

SP EDITION: 1993  
NAVEDTRA NUMBER: 12052  
NSN: 0502-LP-477-5300

Provides a compiled list of bibliographies for advancement study for all Navy ratings. This book also shows the training manuals (TRAMANS) and nonresident training courses (NRTCs) that must be completed to become eligible for advancement. Recommended for use in educational services offices and training offices as a reference.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 15

### **Blueprint Reading and Sketching**

TRAMAN/NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10077-F1  
NSN: 0502-LP-214-4600  
ASSIGNMENTS: 5 POINTS: 12

ERRATA #4 DATED: 1992  
NSN: 0502-LP-214-4604

Discusses uses and kinds of blueprints; language of blueprints; and technical sketching, including how to draw projections and special views. Gives extensive coverage to electrical and electronic prints. Includes chapters on piping, machine, sheet metal, structural, and architectural prints to

## GENERAL NONRESIDENT TRAINING

help ratings concerned with these subjects and to introduce new standards established in these fields.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Boatswain's Mate, Vol 2***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82102  
NSN: 0503-LP-216-9900  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12102  
NSN: 0502-LP-216-9300

This course provides information on the following duties of the Boatswain's Mate: honors and ceremonies; rigging; cargo handling and stowage; replenishment; navigation for the Boatswain's Mate; shiphandling; towing and salvage; mines and countermeasures; damage control organization and painting.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### ***Boatswain's Mate Second Class***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80101  
NSN: 0503-LP-213-6200  
ASSIGNMENTS: 7 POINTS: 12

### ***Boatswain's Mate, Vol 1***

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10101  
NSN: 0502-LP-213-4700

ERRATA #1 DATED: 1991  
NSN: 0502-LP-213-4701

Provides information on the following shipboard duties of the Boatswain's Mate Second Class: weather; marlinespike seamanship, working with canvas and leather; ground tackle and towing; boats and davits; boat handling; rules of the road; signalling; rigging; cargo handling; replenishment at sea; damage control; gunnery; painting and amphibious operations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### ***Boatswain's Mate Third Class***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 70101  
NSN: 0503-LP-219-3900  
ASSIGNMENTS: 10 POINTS: 16

### ***Boatswain's Mate, Vol 1***

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10101  
NSN: 0502-LP-213-4700

ERRATA #1 DATED: 1991  
NSN: 0502-LP-213-4701

Covers the following areas: shipboard duties of the Boatswain's Mate; weather and heavy weather procedures; marlinespike seamanship, working with canvas and leather; ground tackle and towing; boats and davits; boat handling; rules of the road; signalling, rigging, cargo handling; replenishment at sea; damage control; gunnery; and amphibious operations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### ***Boiler Technician 1 & C***

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 80536  
NSN: 0503-LP-500-4360  
ASSIGNMENTS: 3 POINTS: 6

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10536-F  
NSN: 0502-LP-052-6820

This course is designed to cover the duties required to efficiently operate, inspect, and maintain various types of marine boilers and associated equipment and to maintain applicable records and reports.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Boiler Technician 2***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 72140  
NSN: 0503-LP-216-8200  
ASSIGNMENTS: 5 POINTS: 10

### ***Boiler Technician 3 & 2***

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12140  
NSN: 0502-LP-215-2700

Upon completion of the TRAMAN and NRTCs, you will have knowledge which will serve as an aid to performing your duties in the following areas: administration and management; steam engineering; the engineering plant; boiler fittings and instruments; automatic boiler controls; propulsion boiler operation; boiler water/feedwater test and treatment; auxiliary machinery; and valves, pipe fittings, and piping.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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## GENERAL NONRESIDENT TRAINING

### **Boiler Technician 3**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82140  
NSN: 0503-LP-215-2800  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #2 DATED: 1993  
NSN: 0503-LP-215-2802

### **Boiler Technician 3 & 2**

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12140  
NSN: 0502-LP-215-2700

Upon completion of the TRAMAN and NRTCs, you will have knowledge which will serve as an aid to performing your duties in the following areas; administration and management; steam engineering; the engineering plant; boiler fittings and instruments; automatic boiler controls; propulsion boiler operation; boiler water/feedwater test and treatment; auxiliary machinery; and valves, pipe fittings, and piping.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Builder 1**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80649  
NSN: 0503-LP-215-3900  
ASSIGNMENTS: 6 POINTS: 10

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10649-G1  
NSN: 0502-LP-218-3700

This course contains information on the following areas: administration; supervision; building construction and shop organization; facilities maintenance inspections; advance base planning, embarkation, and product turnover; and planning, estimating, and scheduling.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 8

### **Builder 3 & 2, Vol 1**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82520  
NSN: 0503-LP-220-4300  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12520  
NSN: 0502-LP-220-6200

This course contains information on the following topics: construction administration and safety; drawings and specifications; woodworking tools, materials and methods of woodworking; fiber line, wire rope, and scaffolding;

leveling and grading; concrete; placing concrete; masonry; and planning, estimating, and scheduling

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Builder 3 & 2, Vol 2**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80647  
NSN: 0503-LP-212-2600  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #2 DATED: 1990  
NSN: 0503-LP-212-2602

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10647  
NSN: 0502-LP-212-1100

ERRATA #1 DATED: 1990  
NSN: 0502-LP-212-1101

This course contains information on the following areas: light frame construction; floor and wall; roof framing; exterior finish; interior finish; plastering, stuccoing, and ceramic tile; paints and preservatives; introduction to advanced base structures; and heavy construction.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 8

### **Catalog of Navy Training Courses (CANTRAC) Vol. I/II--Training Activity Information and Course Descriptions**

SP EDITION: 1993/1994  
NAVEDTRA NUMBER: 10500

Contains information on training activities and course data such as Course Identification Number (CIN), Title, Locations, Scope of Training, Quota Control, and Class Convening Dates. Published semi-annually in April and October on CD ROM. Distributed to the Standard Navy Distribution List (SNDL).

Special Information: To be added to the distribution list, call or write:

COMMANDING OFFICER  
NETPMSA CODE 0622  
6490 SAUFLEY FIELD RD.  
PENSACOLA FL 32509-5235

DSN 922-1990  
COMM 904-452-1990

### **Catalog of Nonresident Training Courses**

SP EDITION: 1994  
NAVEDTRA NUMBER: 12061  
NSN: 0502-LP-478-7400

## GENERAL NONRESIDENT TRAINING

Lists the latest available nonresident training materials.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Chief Petty Officer Indoctrination Course, Instructor's Guide***

SP EDITION: 1993  
NAVEDTRA NUMBER: 38203  
NSN: 0502-LP-220-7700

Designed as part of an on board training package to prepare newly selected chief petty officers for the transition from petty officer to chief petty officer. The course provides new chief petty officers with a firm understanding of the authority, responsibility, and accountability inherent in their new roles. The guide for the instructor includes all the material covered in the Student's Journal in outline form and suggested instructor activities.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Chief Petty Officer Indoctrination Course, Student's Journal***

SP EDITION: 1993  
NAVEDTRA NUMBER: 38202  
NSN: 0502-LP-220-7600

Designed as part of an on board training package to prepare newly selected chief petty officers for the transition from petty officer to chief petty officer. The course provides new chief petty officers with a firm understanding of the authority, responsibility, and accountability inherent in their new roles. The Student's Journal is a narrative text, in modified outline form, which includes the topical outline, a course overview, key points, supplemental readings, and references. The journal covers nine subject areas: Professionalism; Communication Skills; Management Skills; Leadership Skills; Command Climate; Counseling; CPO Quarters and Messes; Navy Programs and Policies; and CPO Uniform History, Requirements, and Regulations.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 25

### ***Combat Systems and Weapons Department Management***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82965  
ASSIGNMENTS: 6 POINTS: 6

ERRATA #1 DATED: 1992

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12965  
NSN: 0502-LP-215-3200

Combat Systems and Weapons Department Management is a new training manual which updates and replaces The Weapons Officer. Training manual subjects include:

organization relationships, administration, training, ammunition, overhaul, combat systems and more.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 15

### ***Command Master Chief Course Instructor's Guide***

SP EDITION: 1992  
NAVEDTRA NUMBER: 38205-A  
NSN: 0502-LP-220-8700

This special publication is part of an onboard training package and is designed to be used by the instructors conducting the 4-day Command Master Chief seminar. The instructor's guide covers 13 subject areas: Introduction to the command master chief program; Navy ceremonies and protocols; Navy programs and policies; career counseling; Navy leader development program; assistance programs and policies; legal matters; public affairs; enlisted performance evaluation system; command awards and recognition; command finance; uniforms; and the Naval Reserve.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Command Master Chief Course Student's Source Book***

SP EDITION: 1992  
NAVEDTRA NUMBER: 38204-A  
NSN: 0502-LP-220-7800

This special publication is part of an onboard training package for newly assigned command master chiefs, command senior chiefs, and command chiefs. It is designed to be used by those personnel while attending the 4-day Command Master Chief seminar. The instructor's guide covers 13 subject areas: Introduction to the command master chief program; Navy ceremonies and protocols; Navy programs and policies; career counseling; Navy leader development program; assistance programs and policies; legal matters; public affairs; enlisted performance evaluation system; command awards and recognition; command finance; uniforms; and the Naval Reserve.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 150

### ***Communications Security Material System Custodian***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13075-A  
NSN: 0503-LP-478-3400  
ASSIGNMENTS: 3 POINTS: 5

This course covers Communications Security (COMSEC) Material Control System (CMCS); Introduction to COMSEC Material; CMS Education, Training, and Inspections; Establishing a CMS Account and CMS Responsibilities; Safeguarding COMSEC Material and Facilities; Maintaining COMSEC Material Allowance; Control and Documentation

## GENERAL NONRESIDENT TRAINING

Requirements for COMSEC Material; Disestablishment of a CMS Account; COMSEC Incident Reporting; Practices Dangerous to Security (PDS).

**Special Information:** The text for this course, *Communications Security Material System, CMS 1*, is NOT supplied and must be obtained by the student.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### **Construction Electrician 1**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82525  
NSN: 0503-LP-213-2200  
ASSIGNMENTS: 6 POINTS: 10

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12525  
NSN: 0502-LP-213-2100

This manual describes safe working practices and conditions in the use and care of test equipment and meters; procedures for installing, maintaining, and troubleshooting mobile electrical power (MEP) generators; procedures for installing, operating, maintaining, and repairing power distribution systems and lighting systems; procedures for installing, maintaining, and troubleshooting alarm systems; methods of calculating the load requirements of the various electrical systems; and the rigging and erecting of various hoisting systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Construction Electrician 3**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82523  
NSN: 0503-LP-214-8800  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12523  
NSN: 0502-LP-214-8700

This course contains information on the following topics: drawing and specifications, test equipment, power generators, power distribution, interior wiring, electrical appliances and equipment, and communications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Construction Electrician 3 & 2**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80636  
NSN: 0503-LP-217-0900  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #2 DATED: 1992  
NSN: 0503-LP-217-0902

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10636-J  
NSN: 0502-LP-216-9400

Construction Electricians install, operate, service, and overhaul electric power generating and distribution systems, and wire communications systems. This manual describes safe electrical working practices and conditions; uses of blueprints, diagrams, and schematics; types of test equipment and meters; operation of controls and protective devices; principles and techniques of interior wiring; operation of a central power station; and installation and maintenance of underground and overhead power distribution systems and wire communications systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Construction Mechanic 3 & 2**

TRAMAN/NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10644-G1  
NSN: 0502-LP-216-5300  
ASSIGNMENTS: 12 POINTS: 18

ERRATA #1 DATED: 1991  
NSN: 0502-LP-216-5301

Construction Mechanics maintain, repair, and overhaul automotive, construction, and materials handling equipment. This course describes the basic theory, construction, and operating principles of gasoline and diesel engines, fuel and lubricating systems, electrical systems, power trains and suspension systems. Also covered in limited detail are the types of preventive maintenance inspections, and forms used in maintaining cost records.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Construction Mechanic Advanced**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82528  
NSN: 0503-LP-214-9100  
ASSIGNMENTS: 11 POINTS: 17

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12528  
NSN: 0502-LP-214-8900

Construction Mechanics maintain, repair, and overhaul automotive, materials-handling, and construction equipment. This course describes the duties and responsibilities of the construction mechanic in a battalion or Public Works assignment. Their tasks concern procedures for conduction vehicle safety inspections and Battalion Equipment Evaluation Programs; overhauling internal combustion engines; and troubleshooting vehicle electrical systems, fuel systems, and power trains (including automatic

## GENERAL NONRESIDENT TRAINING

transmissions), hydraulic systems, air-conditioning systems, and wheel and track alignment systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### Cryptologic Technician Training Series (CTTS)

#### ***CTTS, Module 1--Shipboard Communications***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 095-01-44-90  
NSN: 0507-LP-212-0200  
ASSIGNMENTS: 4 POINTS: 8

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: A95-01-44-90  
NSN: 0507-LP-212-0100

This module is directed to those CTs serving onboard a ship. It contains an overall introduction to shipboard communications; information on shipboard safety; security and administration; combat readiness; communications systems and equipment; and messages and files.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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#### ***CTTS, Module 4--Technical Control***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 095-04-44-88

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: A95-04-44-88

\*\*\*THESE ITEMS HAVE BEEN DELETED\*\*\*

Replaced by NSG MOD 20  
See Part 2 Of this Catalog

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#### ***CTTS, Module 5--Satellite Communications***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 095-05-44-89

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: A95-05-44-89

\*\*\*THESE ITEMS HAVE BEEN DELETED\*\*\*

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#### ***CTTS, Module 11--CTM Organization and Administration***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 095-11-44-88  
NSN: 0507-LP-219-5300  
ASSIGNMENTS: 2 POINTS: 1

ERRATA #2 DATED: 1991  
NSN: 0507-LP-219-5302

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: A95-11-44-88  
NSN: 0507-LP-219-3800

Contains information on duties and responsibilities of the CTM; maintenance related publications and directives; and drawings and blueprints.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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#### ***CTTS, Module 13--CTM Supervisor***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 095-13-66-93  
NSN: 0507-LP-477-7700  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: A95-13-66-93  
NSN: 0507-LP-477-7600

This course provides the prospective supervisor with information related to general administrative procedures, material control, the Navy's manpower program, the 3-M System, installations, budgeting, and property management.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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## GENERAL NONRESIDENT TRAINING

### ***CTTS, Module 14--CTM Safety***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 095-14-44-89  
NSN: 0507-LP-219-7800  
ASSIGNMENTS: 2 POINTS: 1

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: A95-14-44-89  
NSN: 0507-LP-219-5800

Contains information on the Naval Safety Program; safety precautions for health-hazardous materials; safety precautions for portable power tools; precautions when working with or around electricity; and the types of personal protective equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***CTTS, Module 21--Signals Security***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 095-21-55-87  
NSN: 0507-LP-095-2105  
ASSIGNMENTS: 3 POINTS: 6

ERRATA #1 DATED: 1988  
NSN: 0507-LP-214-8200

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: A95-21-55-87  
NSN: 0507-LP-095-2100

This course is applicable to all personnel who use uncovered radiotelephone and uncovered commercial telephone communications systems. The text describes the signals security mission, concept, and the threat of foreign exploitation. The text also presents signals security awareness programs, surveillance systems, telephone monitoring procedures, operations codes and precautions.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***CTTS, Module 22--Supervision and Training***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 095-22-66-92

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: A95-22-66-92  
NSN: 0507-LP-219-0400

\*\*\*THESE ITEMS HAVE BEEN DELETED\*\*\*

Replaced by NSG MOD 31  
See Part 2 Of this Catalog

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### ***CTTS, Module 23--Time Conversion***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 095-23-00-92  
NSN: 0507-LP-477-7800  
ASSIGNMENTS: 1 POINTS: 2

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: A95-23-00-92  
NSN: 0507-LP-220-8800

This course is designed to assist enlisted and officer personnel of the United States Navy and Naval Reserve in acquiring the knowledge requisite to the computation time. It uses two-dimensional charts and expanded narratives to explain both the global division and designation, and the processes and mathematical formulas used in the conversion of time.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### ***CTTS, Module 24--Introduction to Cryptologic Technician (Administrative)***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 095-24-55-89

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: A95-24-55-89

\*\*\*THESE ITEMS HAVE BEEN DELETED\*\*\*

Replaced by NSG MOD 25  
See Part 2 Of this Catalog

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### ***CTTS, Module 25--Administrative Office Procedures***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 095-25-55-90

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: A95-25-55-90

\*\*\*THESE ITEMS HAVE BEEN DELETED\*\*\*

Replaced by NSG MOD 26  
See Part 2 Of this Catalog

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# GENERAL NONRESIDENT TRAINING

NSN: 0502-LP-052-8640

ERRATA #1 DATED: 1991  
NSN: 0502-LP-052-8641

This course provides training on the following subject matter areas: damage control organization and communications; ship compartmentation and watertight integrity; the fundamentals of fire fighting, firefighting equipment and systems; fighting the fire and the repair of battle damage; radiological effects and countermeasures, biological and chemical agents, and CBR defense.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

## ***CTTS, Module 26--Personnel Support***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 095-26-55-31  
NSN: 0507-LP-214-3800  
ASSIGNMENTS: 4 POINTS: 7

ERRATA #1 DATED: 1992  
NSN: 0507-LP-214-3801

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: A95-26-55-91  
NSN: 0507-LP-214-3700

Contains information on fleet cryptologic support administration; information and personnel security; Defense Courier Service; naval correspondence course and educational programs; administrative services provided by CTAs; enlisted and officer service records; and military decorations and awards.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## ***Damage Controlman 1 & C***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 70574  
NSN: 0503-LP-217-1300  
ASSIGNMENTS: 4 POINTS: 6

This course provides training on the following subject matter areas: advancement and responsibilities; shop supervision; ship repair; damage control diagrams and blueprints; the damaged ship; damage control; and CBR contamination and decontamination.

Special Information: The text for this course is *Hull Maintenance Technician 1 & C*, NAVEDTRA 10574, NSN: 0502-LP-052-8700.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

## ***Damage Controlman 3 & 2***

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80572  
NSN: 0503-LP-500-4720  
ASSIGNMENTS: 7 POINTS: 14

ERRATA #1 DATED: 1988  
NSN: 0503-LP-220-7900

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10572

## ***Data Processing Technician 1 & C***

TRAMAN/NRTC EDITION: 1981  
NAVEDTRA NUMBER: 10265-D1  
NSN: 0502-LP-051-3265  
ASSIGNMENTS: 10 POINTS: 12

Provides information on management techniques, ADP organization, ADP physical security, risk management, privacy, systems analysis, data base organization, computer operations (WWMCCS), and documentation.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## ***Data Processing Technician Second Class***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82511  
NSN: 0503-LP-215-4800  
ASSIGNMENTS: 6 POINTS: 12

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12511  
NSN: 0502-LP-215-4700

This course is designed for enlisted personnel preparing for advancement to petty officer second class in the Data Processing Technician rating and is based on the DP2 Occupational Standards. It covers supervision of data entry, magnetic media library, and computer operations; scheduling ADP production; and working with microcomputers and end users; data communications; local area networks (LANs); packaged software; and system control languages.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## ***Data Processing Technician Third Class***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 80263  
NSN: 0503-LP-476-7600  
ASSIGNMENTS: 4 POINTS: 10

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10263

## GENERAL NONRESIDENT TRAINING

NSN: 0502-LP-051-3200

ERRATA #2 DATED: 1993  
NSN: 0502-LP-051-3202

This TRAMAN and NRTC are designed for enlisted personnel preparing for advancement to petty officer third class in the Data Processing Technician rating. The TRAMAN contains subject matter that relates to the Occupational Standards for the DP3 rate and covers general data processing and digital computer concepts, as well as information about the rating and the tasks to which a DP3 may be assigned. Topics are data processing and the DP rating, the digital computer and how it works, data and data preparation, number systems, coding systems, storage media, operating a computer system, computer software, computer operating systems, computer output, input/output control functions, magnetic media library functions, ADP security requirements, and microcomputer concepts.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Data Systems Technician 3 & 2, Vol 2***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80231  
NSN: 0503-LP-500-1310  
ASSIGNMENTS: 14 POINTS: 15

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10231  
NSN: 0502-LP-051-1550

Provides background information that is necessary for enlisted personnel preparing for advancement to the rates of Data Systems Technician Third and Second Class. The TRAMAN includes information on magnetic storage devices, data display devices, data communication devices, paper storage devices, and data conversion. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

Special Information: Distribution authorized to Department of the U.S. Navy only to protect information not owned by the U.S. Government and protected by a contractor's "limited rights" statement 18 Nov 1986. Other requests for this document shall be referred to:

COMMANDING OFFICER  
NETPMSA CODE 0314  
6490 SAUFLEY FIELD RD.  
PENSACOLA FL 32509-5237

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Data Systems Technician Training Series, Vol 1, Introduction to Data Systems and Maintenance Concepts***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82501  
NSN: 0503-LP-215-4600  
ASSIGNMENTS: 7 POINTS: 10

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12501  
NSN: 0502-LP-215-4400

DS Volume 1 is the first of a new series of DS training manuals (TRAMANS). Subjects included are the DS rating, data systems and support equipment, documentation, test equipment, tools, repair parts/supply, maintenance requirements, and troubleshooting and repair techniques.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Data Systems Technician Training Series Vol 2, Computer Fundamentals and Interfacing***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82502  
NSN: 0503-LP-219-0300  
ASSIGNMENTS: 9 POINTS: 12

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12502  
NSN: 0502-LP-219-0200

DS Volume 2 is the second of a new series of DS training manuals (TRAMANS). Subjects included are computer fundamentals and operations; computer operator controls and controlling units; components and circuits; central processing units and busses; memories; input/output; interfacing; instructions; and man/machine interfaces.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Data Systems Technician Training Series, Vol 6, Data Systems Maintenance Management***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82506  
NSN: 0503-LP-218-9400  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12506  
NSN: 0502-LP-218-9300

DS Volume 6 is part of a new training series of DS training manuals (TRAMANS). Subjects included are data systems maintenance organizations and management, maintenance planning and management of digital data systems, and troubleshooting and diagnosing digital data systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## GENERAL NONRESIDENT TRAINING

### ***Dental Assistant, Advanced***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82571  
NSN: 0503-LP-214-2400  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12571  
NSN: 0502-LP-214-2300

Dental Assistant, Advanced, Training Manual, provides a study package for the advanced Dental Technician for advancement in rate E-5 through E-7.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Dental Assistant, Basic***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82570  
NSN: 0503-LP-214-2200  
ASSIGNMENTS: 11 POINTS: 12

ERRATA #1 DATED: 1992  
NSN: 0503-LP-214-2201

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12570  
NSN: 0502-LP-214-2100

Dental Assistant, Basic is designed to build on the basic dental assisting skills learned at Dental Assistant Basic 'A' School. It will teach new skills required of the basic dental assistant.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Disbursing Clerk 1 & C***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80275  
NSN: 0503-LP-500-1750  
ASSIGNMENTS: 10 POINTS: 15

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10275-G  
NSN: 0502-LP-051-3770

This course consists of information on the knowledge, skills, and responsibilities required in the Disbursing Clerk rating. The following subject matter is detailed: opportunities and challenges in the Disbursing Clerk rating; organization and functions of disbursing and related activities; resource management; mandatory responsibilities in the handling of, accounting for, and reporting of public monies and financial documents; public voucher related entitlement and procedures; military travel and transportation plus military pay and deductions; duties in connection with JUMPS/SDS and the management

techniques required to meet the senior Disbursing Clerk's supervisory responsibilities.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Disbursing Clerk 3 & 2***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82658  
NSN: 0503-LP-218-6900  
ASSIGNMENTS: 10 POINTS: 15

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12658  
NSN: 0502-LP-218-6300

This course covers Disbursing Clerk functions; disbursing office; military pay entitlements; military pay deductions; Navy pay procedures; maintenance of leave and earning statement (LES) and personal financial record (PFR); payments; naval reserve disbursing requirements; appropriation accounting; travel and transportation; public vouchers; collections; and reports and returns.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Disbursing, Part I***

NRTC EDITION: 1982  
NAVEDTRA NUMBER: 10976-D1  
ASSIGNMENTS: 6 POINTS: 12

Provides an introduction to the functions and organization of disbursing offices and the regulations and instructions which govern procurement, disbursement, and custody of public funds and related accounting functions. Topics include procurement, receipt, custody, and disposition of funds; civilian payrolls; preparation and payment of public vouchers' records, reports, and returns; regional consolidation procedures; and United States savings bonds program.

Special Information: The text for this course, excerpts from the *Navy Comptroller Manual, Volume 4* with changes through 249, is supplied by NETPMSA

SEE ORDERING INSTRUCTION #2

### ***Ear Training Manual for Musicians***

SP EDITION: 1986  
NAVEDTRA NUMBER: 10243  
NSN: 0502-LP-051-2150

Covers the divided beat in simple time and compound time; major triad and minor triad in numeral notation and staff notation; the subdivided beat in simple time and compound time; major and minor scale activities; syncopation involving beat and divided beat; diatonic and

## GENERAL NONRESIDENT TRAINING

nondiatonic melodies; time beating patterns; counting system; and performance procedures and guidelines.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Educational Services Officer***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82015  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 1993

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12015  
NSN: 0502-LP-219-9900

This course is designed to assist Navy personnel preparing for duties as an educational services officer. The subject matter includes the following information: the role and duties of the educational services officer; the various educational programs available to officer and enlisted personnel; the steps that must be taken when preparing for advancement; how the Navy advancement system works; and the procedures that must be followed when Navy advancement examinations are administered.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 5

### ***Electrician's Mate 1 & C***

TRAMAN/NRTC EDITION: 1985  
NAVEDTRA NUMBER: 10547-E  
NSN: 0502-LP-052-7375  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #1 DATED: 1986  
NSN: 0502-LP-052-7376

This course provides training in the following areas: visual landing aids; operation and maintenance of shipboard power systems; transistorized control devices; electrohydraulic load-sensing governors; auxiliary propulsion equipment; and voltage and frequency regulation power supplies. It also covers repair and upkeep of various engineering equipment to assure acceptable conditions of readiness in the general area of shipboard engineering casualty control and standing Engineering Officer of the Watch (EOOW). It prepares the individual for increased responsibilities when dealing with administration, supervision and training.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Electrician's Mate 3 & 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80546  
NSN: 0503-LP-212-4200  
ASSIGNMENTS: 9 POINTS: 18

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10546-F  
NSN: 0502-LP-212-2300

In completing this course, you will demonstrate a knowledge of course material by correctly answering questions in the following areas: the Electrician's Mate rating; safety practices particular to electrical safety; use of electrical/electronic test equipment; inspecting, testing, adjusting, removing, replacing, and repairing switches and protective devices; operating, maintaining, and troubleshooting the ship's service and emergency power distribution systems; rigging and operating casualty power systems; function, operation, and repair of motor controllers; lubricating, inspecting, testing, adjusting, and repairing motors and generators; inspecting and maintaining the various lighting equipment and systems; function, operation, and maintenance of the EMS, SSM, and MCD degaussing systems; function, operation, and maintenance of cathodic protection systems; operation and maintenance of auxiliary equipment; and basic principles of sound motion picture systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Electronic Warfare Officer***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80777  
ASSIGNMENTS: 5 POINTS: 12

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10777

The text is intended to provide the Junior Officer assigned to duty as an Electronic Warfare Officer (EWO) with an overview of the organization, mission, procedures, scope, and equipment used in the conduct of Electronic Warfare.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #2

### ***Electronics Technician Supervisor (ETC)***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82410  
NSN: 0503-LP-216-8300  
ASSIGNMENTS: 5 POINTS: 8

### ***Electronics Technician Supervisor***

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12410  
NSN: 0502-LP-216-7900

## GENERAL NONRESIDENT TRAINING

Provides information on ET responsibilities; organization and administration of the electronics division; training of division personnel; quality assurance; test equipment management and administration; EMI; and supply.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Electronics Technician Supervisor (ET1)***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 72410  
NSN: 0503-LP-218-5900  
ASSIGNMENTS: 4 POINTS: 6

### ***Electronics Technician Supervisor***

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12410  
NSN: 0502-LP-216-7900

Provides information on the ET responsibilities; supervision practices; combat systems organization; NTDS/WDS and combat systems testing; electronics casualty control and reporting; calibration and stowage; electronic test equipment; 2M; and system/test equipment maintenance.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Electronics Technician, Vol 1, Safety***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82411  
NSN: 0503-LP-220-4600  
ASSIGNMENTS: 1 POINTS: 2

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12411  
NSN: 0502-LP-220-4400

This volume briefly discusses the history of the Navy's safety program and then presents topics specifically related to the job of the Electronics Technician. General topics are: the primary causes of mishaps and methods for preventing mishaps; and the safety-related responsibilities of the typical chain of command, from the commanding officer down to the individual worker. Specific topics include the general requirements and restrictions associated with obtaining, using, and storing hazardous materials; electric shock and its effects on the human body; electromagnetic radiation and its effects on the human body; the tag-out bill; and safety equipment used by Electronics Technicians.

**Special Information:** This course requires the student to refer to the *Navy Occupational Safety and Health (NAVOSH) Program Manual for Forces Afloat*, OPNAVINST 5100.19B, and *Standard Organization and Regulations of the U.S. Navy*, OPNAVINST 3120.32B.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Electronics Technician, Vol 2, Administration***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82412  
NSN: 0503-LP-477-5100  
ASSIGNMENTS: 1 POINTS: 2

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12412  
NSN: 0502-LP-477-4900

This course provides an overview of general and technical administration and logistics. Included are descriptions of forms and procedures included in the Maintenance Data System (MDS) and publications that should be included in a ship's technical library. Also included is a basic description of the Naval Supply System and COSAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Electronics Technician, Vol 3, Communications Systems***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82413  
NSN: 0503-LP-478-1900  
ASSIGNMENTS: 2 POINTS: 3

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12413  
NSN: 0502-LP-478-1800

Provides basic equipment and operations-related information on Navy communications systems. Topics include radio frequency communications, microwave communications, the Single Audio System (SAS), the Navy Tactical Data System, teletypewriter systems, the TEMPEST program, portable and pack radio communications, and satellite communications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Electronics Technician, Vol 4, RADAR Systems***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82414  
NSN: 0503-LP-478-1100  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12414  
NSN: 0502-LP-478-0900

This course provides a basic introduction to air search, surface search, ground-controlled approach, and carrier controlled approach RADAR systems. Included are basic terms associated with RADAR systems, descriptions, of equipment that compose the common systems, descriptions

## GENERAL NONRESIDENT TRAINING

of RADAR interfacing procedures and equipment, and primary RADAR safety topics.

SEE ORDERING INSTRUCTION # 1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Electronics Technician, Vol 9, Electro-Optics***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82419  
NSN: 0503-LP-477-6600  
ASSIGNMENTS: 1 POINTS: 2

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12419  
NSN: 0502-LP-477-6400

Provides a basic overview of electro-optical devices used in the U. S. Navy. Identifies the devices in current use and explains their operating principles and how they are used.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Electronics Technician 3 & 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80197-1  
NSN: 0503-LP-001-1680  
ASSIGNMENTS: 13 POINTS: 12

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10197  
NSN: 0502-LP-050-9850

Provides information on the duties of electronics personnel; and on radar, communication, navigation, and auxiliary and support systems such as power and cooling; the computer system; maintenance procedures and test equipment; administration, publications, and supply.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Electronics Warfare Technician 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82480  
NSN: 0503-LP-477-2300  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12480  
NSN: 0502-LP-477-2200

Provides information on correspondence documents and publications; EW training and readiness; EW assets and capabilities; Navy EW organization and missions; emission control; EW operations planning and coordination; and ECM/ECCM employment.

Special Information: WARNING! This course is classified SECRET NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Electronics Warfare Technician 3 & 2***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82478  
NSN: 0503-LP-218-3100  
ASSIGNMENTS: 5 POINTS: 9

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12478  
NSN: 0502-LP-218-2900

Provides detailed information on Introduction to electronic warfare; CIC and EW organization; analysis and identification; communications and reporting; logs, status boards, and plots; shipboard electronic warfare support measures (ESM) equipment; shipboard electronic countermeasures (ECM) equipment; auxiliary electronic warfare equipments; security and publications; maintenance.

Special Information: WARNING! This course is classified SECRET/NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Engineering Administration***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82147  
NSN: 0503-LP-219-2900  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12147  
NSN: 0502-LP-219-2800

This course covers the duties and responsibilities of engineering department personnel in the following areas: operation, organization, records systems, training, material, environmental policies and procedures, maintenance administration, quality assurance, ship availabilities, repair activities, ship trials, and occupational health programs.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Engineering Aid 1***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80635-1  
NSN: 0503-LP-212-3100  
ASSIGNMENTS: 12 POINTS: 24

ERRATA #1 DATED: 1991  
NSN: 0503-LP-212-3101

### ***Engineering Aid 1 & C***

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10635-C

## GENERAL NONRESIDENT TRAINING

NSN: 0502-LP-053-1770

This manual discusses the principles of administration; organization and function of an EA 1/C in an NMCB operations department; fundamentals of geodesy and field astronomy; procedure for triangulation surveys, techniques of level and traverse computations; procedures for land surveys and topographic surveys; checking and editing construction drawings; planning and estimating manpower, material, and equipment quantities; principles and techniques of scheduling; soil mechanics; quality control; and basic organization and objectives of public works activities.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Engineering Aid 3**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80696  
NSN: 0503-LP-212-6300  
ASSIGNMENTS: 13 POINTS: 20

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10696  
NSN: 0502-LP-212-4400

ERRATA #1 DATED: 1992  
NSN: 0502-LP-212-4401

This course contains information on the following topics: mathematics and units of measurement; drafting equipment; drafting: fundamentals and techniques; drafting: geometric construction; drafting: projections and sketching; reproduction process; wood and light frame structures; concrete and masonry; mechanical systems and plan; electrical systems and plan; construction drawings; elements of surveying and surveying equipment; direct linear measurements and field survey safety; horizontal control; direct leveling and basic engineering surveys; materials testing; soil and concrete; and administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Engineering Aid 3 & 2, Vol 1**

TRAMAN/NRTC EDITION: 1985  
NAVEDTRA NUMBER: 10634-C1  
NSN: 0502-LP-053-1715  
ASSIGNMENTS: 7 POINTS: 12

ERRATA #3 DATED: 1991  
NSN: 0502-LP-053-1717

This manual discusses the duties and responsibilities of an EA3/2 in an NMCB organization and public works department; fundamentals of mathematics, units of measurements and metric system; use and maintenance of drafting equipment; basic techniques of drafting, lettering,

and sketching; construction of geometric forms and figures; and types of projections.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Engineering Aid 3 & 2, Vol 2**

TRAMAN/NRTC EDITION: 1982  
NAVEDTRA NUMBER: 10628  
NSN: 0502-LP-053-1400  
ASSIGNMENTS: 9 POINTS: 12

ERRATA #2 DATED: 1990  
NSN: 0502-LP-053-1402

This manual covers the basic understanding of the materials and methods of construction used for wood and light frame structures, steel frame structures, concrete and masonry, mechanical and electrical systems (materials), horizontal construction, and also the guidelines for the development or use of construction drawings, mechanical and electrical plans, specifications, and reproduction and drawing files.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Engineering Aid 3 & 2, Vol 3**

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 10629-1  
NSN: 0502-LP-053-1415  
ASSIGNMENTS: 12 POINTS: 20

ERRATA #2 DATED: 1990  
NSN: 0502-LP-053-1417

This manual discusses the basic elements of surveying; chaining techniques; care and use of surveying equipment; field test and adjustment of surveying tools and equipment; staking building sites and excavations; obtaining and converting field notes into topographic maps; running and closing traverses; computing areas by DMD and trapezoidal rule; horizontal and vertical measurement and control; techniques of computing horizontal and vertical curves; testing soils moisture content, liquid limits, specific gravity, compaction, density; classify soils by sieve analysis and in accordance with the USCS; prepare concrete cylinder and beam for testing; concrete strength determination; testing bituminous materials; and soils stabilization and design.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Engineman 1 & C**

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 10543-E1  
NSN: 0502-LP-052-7170  
ASSIGNMENTS: 11 POINTS: 22

ERRATA #1 DATED: 1991  
NSN: 0502-LP-052-7171

## GENERAL NONRESIDENT TRAINING

This course provides training on the following subject matter areas: Describes procedures for scheduling, administering, and supervising work; the purpose and nature of the Engineering Operational Sequencing System and Engineering Operational Casualty Control System; troubleshooting and corrective maintenance procedures for diesel engines, their accessories, reduction gears, main line shafts and shaft bearings; factors affecting engine performance and efficiency; construction, troubleshooting and maintenance of complex refrigeration and air conditioning systems, compressed air systems, auxiliary boilers, and hydraulic systems; procedures for engineering casualty control, maintaining engineering records and reports, conducting trials of engineering equipment and systems, and preparing for administrative and operational inspection.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Engineman 2**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82149  
NSN: 0503-LP-217-7100  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12149  
NSN: 0502-LP-217-6900

This course is designed for enlisted personnel preparing for advancement to petty officer second class in the Engineman rating. This course includes the following topics: administration and training; measuring and repair instruments; internal combustion engines; speed controlling devices; refrigeration and air-conditioning; compressed air systems; laundry, mess deck, galley, scullery, and other auxiliary equipment; and lathe and machining operations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Engineman 3**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80539  
NSN: 0503-LP-221-9300  
ASSIGNMENTS: 9 POINTS: 16

ERRATA #1 DATED: 9305  
NSN: 0503-LP-221-9301

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10539  
NSN: 0502-LP-221-7400

This course provides training on the following subject matter areas: the construction, design, principles of operation, and basic maintenance on diesel engines, reduction gears, and related auxiliary equipment and support systems; the design, construction, principles of operation, application, and basic maintenance of marine auxiliary equipment, such as compressed air systems, evaporators,

refrigeration and air conditioning systems, deck machinery, steering gear, and laundry and galley equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Enlisted Transfer Manual**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13083  
ASSIGNMENTS: 7 POINTS: 14

Provides training on these topics: distribution, assignments, and transfers of enlisted personnel; special programs qualifications; discharges and separations of enlisted personnel; hospitalization and availabilities processing; active duty orders for naval reservists; training and administration of reservists; unplanned loss report; and limited duty.

*Special Information:* The text for this course, *Enlisted Transfer Manual*, NAVPERS 15909D, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Equal Opportunity in the Navy**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 13099-D  
ASSIGNMENTS: 2 POINTS: 3

Covers command, supervisory, and individual responsibilities in supporting official policy of equal opportunity (EO) for all; EO responsibilities of commanders; EO responsibilities specific to shore commands; command managed EO; prevention of sexual harassment; Navy grievance procedures; incident handling and reporting; and Navy EO training.

*Special Information:* The text for this course, *U.S. Navy Equal Opportunity (EO) Manual*, OPNAV Instruction 5354.1C, is included within the course.

SEE ORDERING INSTRUCTION #2

### **Equipment Operator Advanced**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82537  
NSN: 0503-LP-221-6600  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12537  
NSN: 0502-LP-221-6400

This course provides the basic information required for advance equipment operators to perform the duties and responsibilities of the following positions: Transportation Supervisor; Air Detachment Equipment Supervisor; Crane Crew Supervisor; Project Supervisor; Quarry Supervisor;



## GENERAL NONRESIDENT TRAINING

Crusher Supervisor; Concrete Batch Plant Supervisor;  
Asphalt Plant Supervisor; and Well Drilling Supervisor.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Equipment Operator 3***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80692  
NSN: 0503-LP-212-6700  
ASSIGNMENTS: 13 POINTS: 18

ERRATA #1 DATED: 1992  
NSN: 0503-LP-212-6701

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10692  
NSN: 0502-LP-212-5900

This course covers the tasks performed by Equipment Operators Third Class that involve the deployment and operation of automotive, materials handling, weight lifting, and construction equipment. It includes administration; properties of fuels and lubricants; operator maintenance on automotive vehicles and construction equipment; operation of automotive vehicles, materials-handling equipment and earth moving equipment; principles of earthwork; and operation of miscellaneous support equipment, such as concrete transit trucks, mowers, and snowplows.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Equipment Operator 3 & 2***

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 10640-J1  
NSN: 0502-LP-053-2035  
ASSIGNMENTS: 15 POINTS: 24

ERRATA #5 EDITION: 1990  
NSN: 0502-LP-053-2039

Equipment Operators perform tasks that involve the deployment and operation of automotive, materials-handling, weight-lifting, and construction equipment. This course covers administration; properties of fuels and lubricants; fundamentals of power trains and chassis; operation of automotive vehicles, materials handling equipment, earthmoving equipment, paving equipment, and drilling equipment; principles of earthwork; and Principles of operating miscellaneous construction equipment, such as concrete transit trucks, slipform pavers, pile hammers, and power earth augers.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Financial Management in the Navy***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10732-E2  
ASSIGNMENTS: 11 POINTS: 20

TRAMAN EDITION: 1981  
NAVEDTRA NUMBER: 10792-E  
NSN: 0502-LP-053-9615

This course presents an overview of financial management as currently practiced in the Department of the Navy. Provides information necessary for a basic understanding of the financial management function and its components/phases including the organization for financial management and the planning/programming/budgeting system, resource management systems, budgeting system, budget formulation and execution, accounting, progress and statistical reporting and auditing. Discusses major legislation and regulations governing performance of the financial management function and the role of Congress and the General Accounting Office; the DOD, and the Office of Management and Budget in the budget process.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Fire Control Technician B 3 & 2 (TRIDENT)***

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10280  
NSN: 0502-LP-051-3925

This TRAMAN was written to assist Navy personnel in preparing for advancement to petty officer 3 and 2 in the Fire Control Technician B (Ballistic Missile) service rating. The subject matter includes information on the TRIDENT weapon system, software technologies, fire control system services network, digital computer network, computer peripheral network, data bus network, missile and guidance services system network, control and display network, MTREs Mk 6 and 7, Mk 5 guidance system, launcher system, C4 missile, maintenance, and administration procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Fire Control Technician 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82402  
NSN: 0503-LP-476-9300  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12402  
NSN: 0502-LP-476-9200

This course provides the usual way of satisfying the requirement for completing the FT 1 & C TRAMAN necessary for enlisted personnel preparing for advancement to the rates of Fire Control Technician First Class and Chief Petty Officer. The course contains questions concerning the fire control technician rating, fire control systems (MK 118

## GENERAL NONRESIDENT TRAINING

DWS/CS, CCS MK 1, AN-BSY 1, CCS MK 2), plotting, weapons and their employment, OTH-T, and administration.

**Special Information:** WARNING! This course is classified CONFIDENTIAL/NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Fire Control Technician (Gun) 3 & 2***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82400  
NSN: 0503-LP-217-2100  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12400  
NSN: 0502-LP-217-1900

Provides background information necessary for enlisted personnel preparing for advancement to the (underwater) rates of Fire Control Technician (G) Third and Second Class. The TRAMAN includes information on the Fire Control Technician Gun Rating, underwater fire control, underwater fire control systems, peripheral equipment, the Digital Computer Set AN/UYK-7(V), general maintenance, and administration. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

**Special Information:** WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Fire Controlman Chief***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80279-A  
NSN: 0503-LP-500-1792  
ASSIGNMENTS: 6 POINTS: 6

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10279  
NSN: 0502-LP-051-3900

Provides background information that is necessary for enlisted personnel preparing for advancement to the rate of Fire Controlman Chief. The subject matter is applicable to both gun and missile fire control systems. The TRAMAN includes information on ship availabilities, combat system testing, shipboard organization, combat system operational modes, and weapons exercises. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

**Special Information:** WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Fire Controlman First Class***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80278-1  
NSN: 0503-LP-001-1670  
ASSIGNMENTS: 5 POINTS: 6

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10278  
NSN: 0502-LP-051-3850

This course provides the necessary background information for enlisted personnel preparing for advancement to the rate of Fire Controlman First Class. The subject matter is applicable to both gun and missile fire control systems. The TRAMAN includes information on the maintenance system, equipment level maintenance system level maintenance, spotting, naval gunfire support, and training. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Fire Controlman Second Class***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80277-A  
NSN: 0503-LP-500-1772  
ASSIGNMENTS: 13 POINTS: 12

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10277  
NSN: 0502-LP-051-3800

Provides background information necessary for enlisted personnel preparing for advancement to the rate of Fire Control Second Class. The TRAMAN includes information on servomechanisms, analog computers, digital computers, radar principles, microwave components, cooling and dry air systems, battery alignment, collimation, and maintenance. A separate NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Fire Controlman Third Class***

TRAMAN/NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10276-1  
NSN: 0502-LP-211-7800  
ASSIGNMENTS: 13 POINTS: 12

This course, consisting of a text and assignment/questions in one binding, is written as an aid to provide enlisted personnel with background information in preparing for advancement to Petty Officer Third Class in the Fire Controlman (FC) rating. Subject matter is basic and comprehensive and is applicable to missile and gun fire control systems in the Navy. Such subjects as the fire control problem, weapons systems, fire control systems, missiles, guns, ordnance, data transmission, support systems, maintenance, safety, security, administration, and

## GENERAL NONRESIDENT TRAINING

supply are covered on a basic level. A background in electricity and electronics is a prerequisite to this course.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Fireman***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82001  
NSN: 0503-LP-213-7800  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12001  
NSN: 0502-LP-213-7700

Upon completion of the Fireman TRAMAN and NRTC, you will demonstrate knowledge of the following subject areas: engineering administration; engineering fundamentals; the basic steam cycle; gas turbines; internal combustion engines; ship propulsion; pumps, valves, and piping; auxiliary machinery and equipment; instruments; shipboard electrical equipment; and environmental controls.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

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### ***Fluid Power***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82964  
NSN: 0503-LP-213-2400  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #2 DATED: 1992  
NSN: 0503-LP-213-2402

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12964  
NSN: 0502-LP-213-2300

Presents the fundamentals of fluid power (hydraulics and pneumatics); emphasizes fluid power components and systems having general application in naval equipment. Intended as a basic reference for all Navy personnel whose duties require them to have a knowledge of the fundamentals of fluid power.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 35

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### ***Fundamentals of Naval Intelligence***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82962  
ASSIGNMENTS: 9 POINTS: 14

ERRATA #1 DATED: 1993

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12962  
NSN: 0502-LP-212-2100

This course is a broad introduction to intelligence. It is valuable not only to the naval officer assigned to intelligence duty for the first time but equally to the general line officer who will find it increasingly important to understand the capabilities of intelligence as he/she prepares himself/herself for more responsible command. This course was designed to give the student an understanding of the principles, functions, and use of Naval Intelligence. It covers the collection, production, and dissemination of intelligence and concludes with an examination of the elements of world power and requirements of counterintelligence.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Fundamentals of Petroleum***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80883  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10883-C  
NSN: 0502-LP-054-4165

Provides general background information for personnel who deal directly or indirectly with petroleum and petroleum products needed by the Armed Forces for their ships, aircraft, vehicles, and other mechanized equipment. The course emphasizes the role of petroleum in national defense; petroleum resources; properties of crude petroleum; production and refining of petroleum; procedures in measuring, sampling, and testing petroleum products; types and uses of military petroleum products; quality surveillance; practices in handling, storing, and transporting petroleum products; principles of Navy tanker operations; and operations at a Navy fuel depot.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 25

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### ***Gas Turbine System Technician 1 & C, Vol 1***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80552-1  
NSN: 0503-LP-218-5100  
ASSIGNMENTS: 3 POINTS: 6

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10552  
NSN: 0502-LP-052-7570

This course provides information for advancement and training in the Gas Turbine System Technician (Electrical and Mechanical) rating. When preparing for advancement to petty officer first class and chief petty officer, you must also complete the appropriate Gas Turbine System Technician, volume 2 (Electrical or Mechanical). Topics covered include training and administration, engineering plant logs, records and publications, inspections, trials, preventive maintenance, availabilities, overhauls, and

## GENERAL NONRESIDENT TRAINING

engineering officers of the watch aboard gas turbine powered ships.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Gas Turbine System Technician (Electrical) 1 & C, Vol 2***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80551-1  
NSN: 0503-LP-218-3600  
ASSIGNMENTS: 3 POINTS: 6

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10551  
NSN: 0502-LP-052-7560

This course provides information for advancement and training in the Gas Turbine System Technician (Electrical) rating. When preparing for advancement to petty officer first and chief, you must also complete the Gas Turbine System Technician 1 & C, volume 1. Topics covered include engineering control and surveillance systems aboard twin-shaft, gas turbine powered ships; the engineering control systems aboard single-shaft, gas turbine powered ships; and the free standing electronic enclosures and LM2500 equipment aboard gas turbine powered ships.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Gas Turbine System Technician M 1 & C, Vol 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80549-1  
NSN: 0503-LP-221-7300  
ASSIGNMENTS: 3 POINTS: 6

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10549  
NSN: 0502-LP-052-7500

This course provides information for advancement and training in the Gas Turbine System Technician (Electrical) rating. When preparing for advancement to petty officer first class and chief petty officer, you must also complete the Gas Turbine System Technician 1 & C, volume 1. Topics covered include propulsion system and power train, gas turbine inspection and troubleshooting, gas turbine preservation and corrosion control, auxiliary systems maintenance, and flammable liquid management aboard gas turbine powered ships.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Gas Turbine System Technician (Electrical) 2***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82153  
NSN: 0503-LP-218-8700  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12153  
NSN: 0502-LP-218-8600

This course provides information related to the operation and maintenance of gas turbine engineering plants, such as those found on DD-, DDG-, FFG-, CG-, LCAC-, and PHM-class ships. Topics include administration; uninterrupted power supply systems; engineering control system operation; engineering support systems maintenance; electrical and electronic systems maintenance; pressure, temperature, and level control devices; and the LCAC and PHM propulsion systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Gas Turbine Systems Technician (Mechanical) 2***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82157  
NSN: 0503-LP-220-5400  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12157  
NSN: 0502-LP-220-5300

This course provides training material on the following subject matter areas: General engineering administration; oil laboratory procedures and administration; engineering control system operation; engineering support and auxiliary equipment and systems; propulsion plant systems and drive train equipment; LCAC and PHM propulsion systems; and an overview of electric plants found aboard gas turbine-powered ships.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Gas Turbine Systems Technician (Electrical) 3/Gas Turbine Systems Technician (Mechanical) 3, Vol 1***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80563  
NSN: 0503-LP-212-8100  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10563  
NSN: 0502-LP-212-6400

This course provides information on the following topics: administration, engineering safety, basic scientific principles, electrical instruments, gas turbine theory and

## GENERAL NONRESIDENT TRAINING

construction, the main reduction gear and controllable pitch propeller, associated auxiliary equipment, and logs and records. This course may be used as a basic reference for any Navy person striking for the GS rating.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Gas Turbine Systems Technician (Electrical) 3/Gas Turbine Systems Technician (Mechanical) 3, Vol 2***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80564  
NSN: 0503-LP-213-6600  
ASSIGNMENTS: 10 POINTS: 12

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10564  
NSN: 0502-LP-213-6400

This course provides information related to the operation and maintenance of gas turbine engineering plants. Topics covered include gas turbine fundamentals, gas turbine construction, engineering auxiliary and support equipment, and engineering control systems on DD-, CG-, and DDG-class ships. This course is also recommended for any person assigned to a gas turbine ship who needs to understand the operation of this propulsion system.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Gunner's Mate Chief***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80293  
NSN: 0503-LP-216-3600  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10293  
NSN: 0502-LP-216-1800

This training material was developed to assist Navy and Naval Reserve personnel toward advancement to Chief Gunner's Mate. The material presented in this TRAMAN and NRTC covers several management level skills necessary to a GMC including information about the following topics: the handling and stowage of conventional ordnance; the upkeep of ordnance spaces; the planning and management of maintenance; the development and management of overhaul work packages; calibration of test equipment; quality assurance procedures; quality deficiency reporting; the fundamental principles of fire control and battery alignment; descriptions of the various surface and underwater battery fire control systems; upkeep of a technical library; use of the various system logs and records; the casualty reporting

system; ammunition transaction reporting; and the organization and management of training programs.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Gunner's Mate (Guns) First Class***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80292  
NSN: 0503-LP-212-4100  
ASSIGNMENTS: 10 POINTS: 12

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10292  
NSN: 0502-LP-212-3800

This training material was developed for Navy and Naval Reserve personnel who will be performing duties of a GMG1. The material covers operation, tests, zeroing, and maintenance of synchros and servo systems; operation, tests, and maintenance of amplidyne and hydraulic power drives, including the control equipment for the power drives; identification, tests and responsibilities of gun and fire control systems tests; procedures for alignment of shipboard gun batteries, including taking roller path data, computing roller path settings, and plotting fire control cutout cams; function and use of ordnance test equipment; operating principles of fuse-setting devices; handling, stowage, testing, and surveillance of explosives, demolition material, and ammunition; and administrative duties, including upkeep of logs, records and reports. The NRTC provides the usual way of satisfying the requirements for completing the TRAMAN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Gunner's Mate (Guns) 3 & 2***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82442  
NSN: 0503-LP-477-3200  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12442  
NSN: 0502-LP-477-3100

This training material was developed for Navy and Naval Reserve personnel who will be performing the duties of Gunner's Mate (Guns) third class and Gunner's Mate (Guns) second class. The material covers the operation and maintenance of guns, gun mounts, and small arms; the stowage and handling of explosives, and ammunition, and pyrotechnics; the use of material handling equipment (MHE); the operation of magazine sprinkler systems; circuit analysis of electric and electronic control systems; the fundamentals of hydraulic systems operation; the basic principles of ballistics and the fire control problem and an

## GENERAL NONRESIDENT TRAINING

introduction to target detection and fire control systems and battery alignment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Gunner's Mate (Missiles) First Class***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80291  
NSN: 0503-LP-500-1910  
ASSIGNMENTS: 10 POINTS: 16

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10291  
NSN: 0502-LP-051-4390

Provides background information that is necessary for enlisted Naval and Naval Reserve personnel preparing for advancement to GMM1. The course covers the SMS/ASW community; ordnance identification and stowage; missile handling, loading, unloading and jettisoning; guided missile weapon systems and ASW systems; missile firing exercises; hydraulics and pneumatics; electricity and electronics; troubleshooting and testing, and administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Gunner's Mate M 3 & 2, Vol 1***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 10188  
NSN: 0502-LP-050-9400  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #2 DATED: 1992  
NSN: 0502-LP-050-9402

Presents an overview of the GMM rating and provides the background information necessary for enlisted Naval and Naval Reserve personnel preparing for advancement to GMM3 and GMM2. The course covers the Terrier and Tartar guided missile launching systems (GMLSs); their primary, secondary, and auxiliary functions, hydraulic and mechanical equipments; servosystems; aerodynamics and flight principles, and surface missile system (SMS) guided missiles.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***Gunner's Mate M 3 & 2, Vol 2***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 10189  
NSN: 0502-LP-050-9425  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #2 DATED: 1992  
NSN: 0502-LP-050-9427

This course covers U.S. Navy guided missile weapons systems; characteristics, classification, and types of

explosives and pyrotechnics; types of small arms and machine guns, their function and component identification; missile handling; magazines and their protective systems; maintenance and testing of guided missile weapons systems; administrative duties of a GMM; logs, records, and reports.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***Handbook for Chaplains***

SP EDITION: 1987  
NAVEDTRA NUMBER: 113-A  
NSN: 0502-LP-000-5805

An aid for chaplains as supervisors and managers of the Religious Program Specialist Rating. Covers Religious Program Personnel Management, on-the-job training, and occupational standards.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Harmony***

SP EDITION: 1990  
NAVEDTRA NUMBER: 12012  
NSN: 0502-LP-213-0600

Discusses use and formation of harmony.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***History of the Chaplain Corps, Part I***

NRTC EDITION: 1982  
NAVEDTRA NUMBER: 10906-4  
ASSIGNMENTS: 8 POINTS: 12

Presents the history of the Chaplain Corps from the days of the Continental Navy to 8 September 1939.

Special Information: The text for this course, *The History of the Chaplain Corps, United States Navy, Volume One, NAVPERS 15807*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***History of the Chaplain Corps, Part II***

NRTC EDITION: 1950  
NAVEDTRA NUMBER: 10907  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #1 DATED: 1992

Continues the history of the Chaplain Corps through 1949.

## GENERAL NONRESIDENT TRAINING

**Special Information:** The text for this course, *The History of the Chaplain Corps, United States Navy, Volume Two, NAVPERS 15808*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **History of the Chaplain Corps, Part III**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13095  
ASSIGNMENTS: 10 POINTS: 15

Presents the History of the Chaplain Corps during the Korean Conflict from June 1950 to June 1954.

**Special Information:** The text for this course, *The History of the Chaplain Corps, United States Navy, Volume Six, NAVPERS 15936*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **History of the Chaplain Corps, Part IV**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 13096  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 1991

Part IV presents the history of the Chaplain Corps during the Vietnam conflict between 1954 and 1975.

**Special Information:** The text for this course, *The History of the Chaplain Corps, U.S. Navy, Volume IX, Chaplains with U.S. Naval Units in Vietnam 1954-1975, NAVPERS 15508*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **History of the Chaplain Corps, Part V**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 13097  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 1992

This course covers the historical contributions made by the U.S. Chaplain Corps to Marines in Vietnam from 1962 through 1971. Specifically, the course details circumstances surrounding Chaplain Corps' efforts to do the following: minister to Marines in need during wartime; assess and meet the increasing, multiple demands of Marines in all areas of combat activity; and counsel and aid each Marine on an individual basis.

**Special Information:** The text for this course, *The Chaplains with Marines in Vietnam 1962-1971*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **Hospital Corpsman 1 & C**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80670  
NSN: 0503-LP-500-5700  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #1 DATED: 1991  
NSN: 0503-LP-500-5701

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10670-C  
NSN: 0502-LP-053-3510

Covers patient assessment and treatment; diet therapy; prescriptions; preventive medicine; medical aspects of chemical, biological, and radiological defense; clinical laboratory; naval organization; naval manuals, directives, and reports; Navy correspondence and classified information; personnel records and accounting; Navy medical finance and supply; decedent affairs program; legal implications in medical care; and health care administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

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### **Hospital Corpsman 3 & 2**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80669  
NSN: 0503-LP-218-9600  
ASSIGNMENTS: 8 POINTS: 10

ERRATA #1 DATED: 1991  
NSN: 0503-LP-218-9601

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10669-C  
NSN: 0502-LP-218-8100

Covers anatomy and physiology; first aid and emergency procedures; patient care; clinical laboratory, pharmacology and toxicology; pharmacy; health records and physical examinations; administration; preventive medicine; and chemical, biological, and radiological warfare. Covers anatomy and physiology; first aid and emergency procedures; patient care; clinical laboratory, pharmacology and toxicology; pharmacy; health records and physical examinations; administration; preventive medicine; and chemical, biological, and radiological warfare.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

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### **Hull Maintenance Technician 1 & C**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 91249-B1  
NSN: 0503-LP-217-4400  
ASSIGNMENTS: 8 POINTS: 16

TRAMAN EDITION: 1972  
NAVEDTRA NUMBER: 10574  
NSN: 0502-LP-052-8700

## GENERAL NONRESIDENT TRAINING

This course provides training on the following subject matter areas: shop supervision; ship repair; metallurgy and heat treating; welding and inspection of welds; boat repairs (plastic and wood); ship stability; damage control; NBC warfare; training and security programs.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### **Hull Maintenance Technician 3 & 2**

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 10571-1  
NSN: 0502-LP-052-8635  
ASSIGNMENTS: 7 POINTS: 14

Course provides training on small boat repair, the installation and maintenance of deck coverings, the use of portable and fixed tools and equipment, metallurgy, oxyacetylene and arc welding, non-destructive testing, sheet metal and structural layout and fabrication, piping systems and pipe fitting, and ship sewage systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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### **Human Behavior**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80058  
ASSIGNMENTS: 6 POINTS: 9  
NSN: 0503-LP-478-3600

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10058-C1  
NSN: 0502-LP-218-9800

This course consists of a separate text and nonresident training course written to explain human behavior to the student. The subject matter includes the following information; the basic assumptions about human behavior and motivation, influence of perception, effects of stress and conflict on reactions to situations, communications, formation and influence of attitudes, basic steps in problem-solving procedures, and basic theories of teaching and learning.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

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### **Illustrator Draftsman 1 & C**

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 80473  
NSN: 0503-LP-500-3730  
ASSIGNMENTS: 2 POINTS: 4

### **Illustrator Draftsman**

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10472  
NSN: 0502-LP-052-3530

Covers preparation of freehand roman, text, script and contemporary lettering, describes the design, preparation, and evaluation of artwork copy for reproduction; covers supervision of a graphics shop; and discusses monitoring compliance with copy and reproduction regulations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Illustrator Draftsman 3 & 2**

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 80472  
NSN: 0503-LP-500-3720  
ASSIGNMENTS: 18 POINTS: 33

ERRATA #9 DATED: 9308  
NSN: 0503-LP-500-3726

### **Illustrator Draftsman**

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10472  
NSN: 0502-LP-052-3530

Covers graphics shop furnishings, graphics shop equipment and tools, media materials, the basic forms, figure drawing, geometric construction, ellipse construction, standards for Navy drawings, dimensioning, the types of projections, the construction of technical drawings, construction of freehand lettering, typeface classification, mechanical aids for lettering, color theory, color schemes, color characteristics, color mixing, the use of color mediums, the use of color in photography, television, and lithographic reproduction, perspective drawings, drawing cartoon figures and animals, basic cartooning fundamentals, types of airbrushes, materials for airbrushing, airbrush techniques, pictorial renderings and photo retouching, the use and maintenance of silkscreen equipment, types of copy, preparing mechanical scaling and cropping artwork, dummies, color reproduction, evaluating and marking artwork for quality, designing training aids, charts, and graphs, matting and mounting methods, projected media, television graphics, the diazo process machine and materials, photo-typesetters, copy equipment, the use and operation of audio-visual equipment, graphics shop organization, record-keeping systems, administering graphics shops supplies, guidelines for purchasing equipment, and graphics shop administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Instrumentman 1 & C**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82202  
NSN: 0503-LP-213-0900  
ASSIGNMENTS: 6 POINTS: 10

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12202  
NSN: 0502-LP-213-0800



## GENERAL NONRESIDENT TRAINING

This course provides training in the following areas: administration of Instrument Repair Shops, Mechanical Instrument Repair and Calibration Shops (MIRCS), Fleet Mechanical Calibration Laboratories (FMCL), Watch Repair Shops, and Office Machine Repair Facilities; Traceability, equipment, procedural, calibration, and instrument standardization within the Navy Calibration Program for measuring equipment and test measuring instruments; functions of the torque, pressure, temperature, and the oxygen clean areas of MIRCS and FMCLs, including a Report of Calibration for Deadweight Testers; manufacture and replacement of watch repair parts and special tools, casualty analysis procedures and testing of Naval timepieces, manipulation and manufacture of hairsprings; position, beat, temperature compensation, and isochronal adjustments for elimination of conditions that effect the degree of accuracy of timepieces; interpretation of data produced by watch/clock timing machines and test equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Instrumentman 3 & 2***

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80193  
NSN: 0503-LP-500-0930  
ASSIGNMENTS: 8 POINTS: 16

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10193-D  
NSN: 0502-LP-050-9655

This course provides basic information on the principles of measurement and physics, incorporating the classification, principles of design, construction, and repair of pressure measuring devices, temperature measuring devices, tachometers, liquid-level indicators, flow indicators, torque measuring devices, combustible gas indicators, and linear measurement devices; the operation and maintenance of the appropriate test equipment used in calibration facilities, following the procedures and specifications outlined by the Metrology Engineering Center, NAVSEASYSOM; chemicals and chemicals handling; principles of soldering and brazing, and manufacture of special parts and tools; purpose, function, operation, repair, adjustment, and casualty analysis of electric typewriters, and liquid and stencil process duplicating machines.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Intelligence Specialist 1 & C***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82806  
NSN: 0503-LP-217-9900  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12806  
NSN: 0502-LP-217-9800

Provides detailed on information Intelligence Specialist mission orientation, intelligence operational planning, intelligence collection, intelligence sensor systems, intelligence data system fundamentals, foreign weapon systems, foreign threats to U.S. forces, and security and SSO orientation.

**Special Information:** WARNING! This course is classified SECRET/WNINTEL/NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Intelligence Specialist 3 & 2, Vol 1***

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 10271-1  
NSN: 0502-LP-051-3605  
ASSIGNMENTS: 9 POINTS: 14

Covers fundamentals of intelligence; intelligence administration; security; maps, charts, and grid systems; basic photography; aerial photography; titling, plotting, and forwarding of related intelligence photography; and mosaics, overlays, and graphics.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Intelligence Specialist 3 & 2, Vol 2***

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80272  
NSN: 0503-LP-500-1720  
ASSIGNMENTS: 9 POINTS: 14

ERRATA #1 DATED: 1989  
NSN: 0503-LP-217-9200

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10272  
NSN: 0502-LP-051-3650

ERRATA #1 DATED: 1990  
NSN: 0502-LP-051-3651

Covers the various types of imagery interpretation, including the interpretation of building structures and industrial analysis, transportation and lines of communications, military vehicles and artillery, airfields and aircraft, missiles, harbor and port defenses, beach and coastal defenses, naval forces, and merchant ships. Also included are vertical photographic techniques, fundamentals of infrared imagery interpretation, and mission planning.

**Special Information:** WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

## GENERAL NONRESIDENT TRAINING

### ***Intelligence Specialist 3 & 2, Vol 3***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80273  
NSN: 0503-LP-219-7600  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10273  
NSN: 0502-LP-219-5400

Covers operational intelligence, operational intelligence processing, intelligence collection, methods of processing and disseminating intelligence, reporting methods and formats, U.S. naval forces and their missions, Soviet naval forces, Third World naval threats, and terrorism.

**Special Information:** WARNING! This course is classified SECRET/WNINTEL/NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Interior Communications Electrician, Vol 2***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82161  
NSN: 0503-LP-476-5800  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #1 DATED: 1993  
NSN: 0503-LP-476-5801

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12161  
NSN: 0502-LP-476-5700

This course provides information in the following areas: manual bus transfers, motor controllers, and frequency regulators; anemometer systems; the stabilized glide slope (SGSI) system; and technical administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Interior Communications Electrician, Vol 3***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82162  
NSN: 0503-LP-218-4600  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12162  
NSN: 0502-LP-218-4400

This course provides information in the following subject matter areas: technical administration and supervision; quality assurance program and procedures;

ships' drawing and diagrams; and standard maintenance procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***IC Electrician 3***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80559  
NSN: 0503-LP-219-7700  
ASSIGNMENTS: 8 POINTS: 16

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10559-A  
NSN: 0502-LP-219-5600

ERRATA #1 DATED: 1991  
NSN: 0502-LP-219-5601

This course provides information related to the operation and maintenance of interior communications and associated equipment. Topics covered include electrical and general safety precautions; switches, protective devices, and cables; power distribution and IC and ACO switchboards; sound-powered telephone system; automatic dial telephone system; amplified voice systems; ship's entertainment system; alarm, safety, and warning systems; gyrocompass systems; gears and mechanical assemblies; ship's order indicating and metering systems; and administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Interservice Procedures for Instructional Systems Design (5 Volumes)***

SP EDITION: 1975  
NAVEDTRA NUMBER: 106-A  
NSN: 0502-LP-000-5300

Describes the approved techniques and procedures to be followed in the development and conduct of interservice training.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 1

### ***Introduction to 3-M Systems***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 13092  
ASSIGNMENTS: 2 POINTS: 4

This course is designed to provide the user a basic understanding of the Navy's 3-M Systems. The text bound in the course book is excerpted from the Ships' Maintenance and Material Management (3-M) Manual, OPNAVINST 4790.4B, and simplified for training purposes.

## GENERAL NONRESIDENT TRAINING

Special Information: The text for this course, excerpts from *Ships' Maintenance and Material Management (3-M) Manual*, OPNAVINST 4790.4B is included in the course.

SEE ORDERING INSTRUCTION #2

### ***Introduction to Meteorology***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13074  
ASSIGNMENTS: 5 POINTS: 8

This course covers the physical concepts involved in the formation of weather systems and weather patterns. Additionally, it provides an understanding of how weather affects man and how man affects weather.

Special Information: The text for this course, *Meteorology Today: An Introduction to Weather, Climate, and the Environment*, 4th Edition, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Introduction to Programming in BASIC***

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 10079-2  
NSN: 0502-LP-050-3970  
ASSIGNMENTS: 2 POINTS: 3

ERRATA #1 DATED: 1990  
NSN: 0502-LP-050-3971

Provides an introduction to computer programming and to the BASIC programming language. It includes BASIC instructions, rules, and sample problems. BASIC is a popular language for new programmers and casual computer users. Its use of near English words and mathematical expressions gives the coding a familiar appearance. No prior computer experience is required. The text has end-of-chapter questions and practice problems with answers.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Introduction to the Department of the Navy Information and Personnel Security Program***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13080  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 9308

This course will provide the student with a basic introduction into the Navy Information and Personnel Security Program, as outlined in OPNAVINST 5510.1H. The emphasis of this course is on the operational requirements involved with classified material. The student will understand the importance of protecting classified information from unauthorized disclosure and the procedures that must be followed when working in security sensitive areas.

Special Information: The text for this course, *Department of the Navy Information and Personnel Security Program*, OPNAVINST 5510.1H, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Investigations***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13081  
ASSIGNMENTS: 5 POINTS: 8

This nonresident training course covers policy and procedures pertaining to administrative investigations; rights of parties and witnesses, line of duty/misconduct investigations; accident investigations; and claims and foreign claims investigations.

Special Information: The text for this course, excerpts from *Judge Advocate General Instructions 5800.7C and 5830.1*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Journalist 1 & C***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82706  
NSN: 0503-LP-218-9200  
ASSIGNMENTS: 9 POINTS: 15

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12706  
NSN: 0502-LP-218-9100

ERRATA #1 DATED: 1992  
NSN: 0502-LP-218-9101

Describes the principles of accomplishing the following tasks: managing a public affairs office, public affairs in adverse news situations; operating a command information bureau (CIB); dealing with the mass media; developing and implementing a community relations program; planning and staging special events; preparing and giving speeches; operating a speakers bureau; managing the staff of a civilian enterprise (CE) or funded newspaper; managing a Navy Broadcasting Service (NBS) detachment; and conducting audience surveys.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Journalist 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80296  
NSN: 0503-LP-500-1960  
ASSIGNMENTS: 15 POINTS: 24

ERRATA #2 DATED: 1991  
NSN: 0503-LP-500-1962

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10296-1  
NSN: 0502-LP-051-4775

## GENERAL NONRESIDENT TRAINING

Provides knowledge of basic newsgathering, newswriting and copy editing techniques; news release preparation for the various news media; preparation and layout of Navy newspapers, including headline and outline writing; procedures for conducting interviews, including taped interviews for radio and television; fundamentals of audio and video tape recorder operations, including editing; fundamentals of photography and photojournalism; familiarization with newspaper, wire service, radio/TV station and Fleet Home Town News Center operations; and familiarization with libel, right of privacy and copyright laws.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Law of Armed Conflict***

SP EDITION: 1983  
NAVEDTRA NUMBER: 112-A  
NSN: 0502-LP-000-5705

Covers the conduct of Naval personnel under the Law of Armed Conflict.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 250

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### ***Legalman Chief***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80458  
NSN: 0503-LP-217-1100  
ASSIGNMENTS: 1 POINTS: 1

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10458  
NSN: 0502-LP-216-9600

This course covers administrative procedures used in operating a legal office; screening correspondence for assigning work priorities; managing civilian personnel; writing instructions and notices; processing letters of indebtedness; pretrial restraint procedures and rights; and appellate review procedures and rights.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Legalman 1***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80457  
NSN: 0503-LP-212-1200  
ASSIGNMENTS: 2 POINTS: 4

ERRATA #2 DATED: 1992  
NSN: 0503-LP-212-1202

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10457  
NSN: 0502-LP-211-9600

This course covers functions of different departments of a naval legal service office; writing naval correspondence, messages, NAVGRAMS, and techniques used in effective writing; materials and procedures used in conducting legal research; types of claims statutes used in claims asserted for and against the government; preparation of limited claims investigations, claims management, fact-finding bodies, requests and subpoenas for witnesses; interviewing and taking statements and depositions of witnesses; identifying, safeguarding, and maintaining evidence with chain of custody forms; preparing legal pleading; and reviewing charge sheets and supporting documentation before trial.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Legalman 2, Module 1--Administration and the Legalman***

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 288-01-55-83  
NSN: 0507-LP-288-0115  
ASSIGNMENTS: 1 POINTS: 2

Covers administrative organization of the Office of the Judge Advocate General, the Naval Legal Service Command, basic office procedures, and the maintenance of the law library.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Legalman 2, Module 2--Constitutional Considerations and Pretrial Procedures***

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 288-02-55-87  
NSN: 0507-LP-288-0205  
ASSIGNMENTS: 1 POINTS: 2

Covers preliminary constitutional rights of individuals, procedures for search and seizure, pretrial investigation procedures, and pretrial confinement procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Legalman 2, Module 3--The Court Reporter, Trial, and Posttrial Matters***

TRAMAN/NRTC EDITION: 1981  
NAVEDTRA NUMBER: 288-03-55-81  
NSN: 0507-LP-288-0300  
ASSIGNMENTS: 1 POINTS: 3

Covers basic court reporting procedures, preparation of convening orders, preparation of records of trial, trial procedures, and preparation of posttrial documents.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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## GENERAL NONRESIDENT TRAINING

### ***Legalman 2, Module 4--Nonjudicial Punishment and Delivery of Personnel***

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 288-04-55-83  
NSN: 0507-LP-288-0400  
ASSIGNMENTS: 1 POINTS: 2

Covers the basic procedures for the administration of nonjudicial punishment including the preparation of OCR documents and associated clerical functions. Covers the basic procedures associated with the delivery and extradition of personnel to federal and civil authorities.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Legalman 2, Administrative Separations and Legal Assistance***

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 288-06-55-86  
NSN: 0507-LP-288-0610  
ASSIGNMENTS: 1 POINTS: 2

ERRATA #1 DATED: 1988  
NSN: 0507-LP-216-7400

### ***Legalman 2, Module 6--Administrative Separations and Legal Assistance***

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: C88-06-55-86  
NSN: 0507-LP-288-0605

Covers the types of administrative separations, procedures associated with each, and preparation of associated documents. Covers the scope and responsibilities of the LN with relation to the Legal Assistance Program, and the preparation of legal documents associated with the Legal Assistance Program.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Lithographer 1 & C***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80452  
NSN: 0503-LP-500-3520  
ASSIGNMENTS: 3 POINTS: 5

### ***Lithographer***

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10451  
NSN: 0502-LP-052-2600

This course contains information on the following topics: Cold-type composition, photographic materials, production of line negatives, the offset press, the 19- by 25-inch Harris offset press, maintenance of lithographic equipment,

pressroom troubles, administration of reproduction, techniques of supervision, and photographic problems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Lithographer 3 & 2***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80451  
NSN: 0503-LP-500-3510  
ASSIGNMENTS: 13 POINTS: 20

### ***Lithographer***

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10451  
NSN: 0502-LP-052-2600

This course contains information on the following topics: The Navy Lithographer, planning reproduction, cold-type composition, artwork preparation, photographic equipment, photographic materials, production of line negatives, production of halftone negatives, stripping and negative correction, platemaking, the offset press, Multilith presses, the A. B. Dick offset duplicator, the 19- by 25- inch Harris offset press, paper and ink, and bindery equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Lookout Training Handbook***

SP EDITION: 1991  
NAVEDTRA NUMBER: 12968  
NSN: 0502-LP-214-2800

Describes the duties of a lookout and the equipment lookout use. Contains illustrations and references for the recognition of navigation aids, signals, naval and merchant ships, and aircraft.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 50

### ***Machinery Repairman 2, 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82204-A  
NSN: 0503-LP-477-5800  
ASSIGNMENTS: 2 POINTS: 3

### ***Machinery Repairman***

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12204-A  
NSN: 0502-LP-477-5600

This course covers the tools, shop equipment, and methods commonly used by an MR2, MR1, and MRC in the operation of a Navy machine shop.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## GENERAL NONRESIDENT TRAINING

### ***Machinery Repairman 3***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 72204  
NSN: 0503-LP-477-5700  
ASSIGNMENTS: 7 POINTS: 11

### ***Machinery Repairman***

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12204-A  
NSN: 0502-LP-477-5600

This course covers the tools, shop equipment, and methods commonly used by an MR3 in the operation of a Navy machine shop.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Machinist's Mate 3 & 2***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82144  
NSN: 0503-LP-215-9700  
ASSIGNMENTS: 8 POINTS: 16

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12144  
NSN: 0502-LP-215-9600

This course provides information on the following subjects: steam turbines; reduction gears, lubrication, pumps, heat exchangers, air ejectors, engine room operating procedures, engineering administration, steam operated distilling plants, piping, valves, gaskets, packing, refrigeration, air conditioning, compressed air systems, and auxiliary equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***Management Fundamentals: A Guide for Senior and Master Chief Petty Officers***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80049  
NSN: 0503-LP-212-8700  
ASSIGNMENTS: 3 POINTS: 4

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10049  
NSN: 0502-LP-212-8600

This course consists of a separate text and nonresident training course covering the basics of current management theory. Topics include the following information: introduction to management-- planning, organizing, and decision making; controlling; personnel management; administration; leadership and motivation; communication; and programs and policies.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***Maneuvering Board (Advanced)***

TRAMAN/NRTC EDITION: 1993  
NAVEDTRA NUMBER: 12974  
NSN: 0502-LP-478-5700  
ASSIGNMENTS: 2 POINTS: 5

**Note:** This is an *advanced* course for personnel with previous on-the-job training and experience in maneuvering board procedures. It is not a basic course. Personnel lacking in maneuvering board experience can order a computer-assisted version of this course (see Part 5 of this catalog).

This course covers relative motion, vector diagram, and maneuvering board procedures, techniques, and rules. Problems covered are closest point of approach, course and speed, change of station, avoiding course, scouting, wind, limiting and desired ranges, retirement course, search turn, and tactical maneuvering.

**Special Information:** The following materials needed to complete this course are NOT supplied to ACTIVE DUTY or DRILLING RESERVE personnel: full-sized maneuvering boards (you may make copies of the blanks in the back of this course), parallel rulers, and dividers. Non-drilling Reserve personnel may request materials from:

Commanding Officer  
NETPMSA Code 074  
6490 Saufley Field Rd.  
Pensacola, FL 32509-5000

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Marine Navigation, Course I***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 10921-C  
ASSIGNMENTS: 5 POINTS: 10

Covers the fundamentals of surface navigation including chart projections, instruments used by the navigator, magnetic compass errors, mercator and great circle sailing, dead reckoning, piloting, and electronic navigation.

**Special Information:** The text for this course, *Dutton's Navigation and Piloting, 14th edition, 1985*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Marine Navigation, Course II***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13077  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #1 DATED: 9308

Covers the fundamentals of nautical astronomy, lines of position from celestial observations, the marine sextant, solution for a celestial line of position, latitude observations, sunrise, sunset, moonrise, moonset and star identification. The emphasis is on problem solving to ensure understanding of theory.

## GENERAL NONRESIDENT TRAINING

Special Information: The text for this course, *Dutton's Navigation and Piloting*, 14th edition, 1985, is supplied by NETPMSA. Solving the complex problems requires detailed research of data in Dutton's Navigation and Piloting.

SEE ORDERING INSTRUCTION #2

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### **Master-At-Arms C**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 91427-A  
NSN: 0503-LP-806-7421  
ASSIGNMENTS: 5 POINTS: 10

### **Master-at-Arms 2, 1 & C, Vol 1 & 2**

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10255  
NAVEDTRA NUMBER: 10256  
NSN: 0502-LP-051-2760

At the chief level, provides coverage in the following areas: crimes and offenses; crowd control; physical security; confinement facilities; and administration.

Special Information: Master-At-Arms 2, 1 & C, Vols 1 and 2, (NAVEDTRA 10255 and 10256) are shipped as one document under the same stock number.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Master-At-Arms 1**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 91426-1  
NSN: 0503-LP-806-7411  
ASSIGNMENTS: 5 POINTS: 10

### **Master-At-Arms 2, 1 & C, Vol 1 & 2**

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10255  
NAVEDTRA NUMBER: 10256  
NSN: 0502-LP-051-2760

At the first class level, provides coverage in the following areas: military law of evidence; narcotics and dangerous drugs; investigations; patrols; military customs inspections; and confinement facilities.

Special Information: Master-At-Arms 2, 1 & C, Vols 1 and 2, (NAVEDTRA 10255 and 10256) are shipped as one document under the same stock number.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Master-At-Arms 2**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 91425-A1  
NSN: 0503-LP-220-9900  
ASSIGNMENTS: 7 POINTS: 14

### **Master-At-Arms 2, 1 & C, Vol 1 & 2**

TRAMAN EDITION: 1985

NAVEDTRA NUMBER: 10255  
NAVEDTRA NUMBER: 10256  
NSN: 0502-LP-051-2760

At the second class level, provides coverage in the following areas: career development; legal aspects of military law; search and seizure; narcotics and dangerous drugs; weapons; rules and regulations; and shipboard duties.

Special Information: Master-At-Arms 2, 1 & C, Vols 1 and 2, (NAVEDTRA 10255 and 10256) are shipped as one document under the same stock number.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### **Mathematics, Part I**

NRTC EDITION: 1978  
NAVEDTRA NUMBER: 10448-3  
NSN: 0502-LP-052-2540  
ASSIGNMENTS: 11 POINTS: 22

### **Mathematics, Vol 1**

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10069-D1  
NSN: 0502-LP-050-3460

Provides a review of basic arithmetic and elementary algebra; includes fractions, decimals, percentages, exponents, radicals, logarithms; exercises in factoring polynomials, linear equations, ratio, proportion, variation, complex numbers and quadratic equations; presents brief introduction to plane figures, geometric construction, and trigonometry.

Special Information: High school algebra or its equivalent is considered the minimum academic background for enrollment in this course. Personnel in supervisory positions should inform enrollees that considerable effort and concentration will be required to complete this course.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

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### **Mathematics, Vol 2-A**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80062  
ASSIGNMENTS: 4 POINTS: 11

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10062  
NSN: 0502-LP-215-3700

This course is general in nature and is not directed toward any one specific specialty. Subjects include definitions, notations, and computations with logarithms; trigonometric ratios, analysis, applications, and aids to computations; trigonometric identities; and vectors and force.

Special Information: Successful completion of Mathematics, Part I or equivalent classroom courses in the

## GENERAL NONRESIDENT TRAINING

fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 50

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### **Mathematics, Vol 2-B**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80063  
ASSIGNMENTS: 5 POINTS: 12

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10063  
NSN: 0502-LP-215-6700

This course is general in nature and is not directed toward any specific specialty. Subjects include straight lines, conic sections, tangents, normals, slopes; introduction to differential and integral calculus; combinations and permutations; and introduction to probability.

Special Information: Successful completion of Mathematics, Part 1 and Mathematics, Volume 2-A or equivalent classroom courses in the fundamentals of algebra and trigonometry is strongly recommended prior to enrollment.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 50

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### **Mathematics, Part III**

NRTC EDITION: 1977  
NAVEDTRA NUMBER: 10450-A1  
ASSIGNMENTS: 5 POINTS: 14

### **Mathematics, Vol 3**

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10073-A1  
NSN: 0502-LP-050-3655

Elements of digital computer mathematics--sequence and series, induction and the binomial theorem, statistics, number systems, sets and subsets, Boolean algebra, matrices, and determinants.

Special Information: Successful completion of Mathematics, Part I or equivalent classroom courses prior to enrollment is strongly recommended.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 20

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### **Mess Management Specialist 1 & C**

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80268  
NSN: 0503-LP-500-1680  
ASSIGNMENTS: 10 POINTS: 20

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10268-A  
NSN: 0502-LP-051-3410

This course identifies and explains the technical and administrative roles normally performed by senior Mess Management Specialist. The presentation of these management roles involves the following subject areas: the mission and functions of Mess Management Specialists within foodservice divisions and bachelor quarters; various regulations and instructions concerning the proper administrative control of Navy messes; effective control of foodservice records including procurement, storage, and inspection; preparation and rendering of accurate financial reports; proper nutritional and menu planning analysis; effective and efficient management of bachelor quarters; and coordinating procedures for special feeding.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### **Mess Management Specialist 3 & 2**

TRAMAN/NRTC EDITION: 1987  
NAVEDTRA NUMBER: 10267-A2  
NSN: 0502-LP-051-3370  
ASSIGNMENTS: 12 POINTS: 18

In completing this course, you will demonstrate a knowledge of the subject matter by correctly answering questions pertaining to the following: the missions, functions, and responsibilities of the Mess Management Specialist; the operation of bachelor quarters and officers quarters afloat; the operations of enlisted and private messes; accounting procedures; proper use and care of foodservice equipment; sanitation and health care; the receipt and expenditure of food items; nutrition and menu planning, and the preparation and serving of the various food items available in enlisted and private messes.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 30

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### **Mess Management Specialist 3**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80090  
NSN: 0503-LP-212-4600  
ASSIGNMENTS: 7 POINTS: 14

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10090  
NSN: 0502-LP-212-2700

In completing this course, you will acquire knowledge of the following Mess Management Specialist subject areas: administration; sanitation; procurement, receipt, inspection, and storage of food items; issuing and accounting of food items; foodservice equipment; meat, poultry, and seafood; food preparation; breads and desserts; food service; and quarters afloat and ashore.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 30

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## GENERAL NONRESIDENT TRAINING

### **Message Drafting Procedures**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13135-F  
ASSIGNMENTS: 3 POINTS: 3

Familiarizes the enrollee with the responsibilities of each person who has a part in preparing and transmitting naval messages; and with types of messages; precedences; various components of messages; readdressals; message cancellation; preparation of GENADMIN formatted messages; use of CADs and AIGs; and the contents of the U.S. Navy Plain Language Address Directory.

**Special Information:** The text for this course, *Telecommunications Users Manual, NTP 3(H), NTP 3 SUPP-1(K)*, and portions of the *Message Address Directory (MAD)* pertaining to U.S. Navy Plain Language Address Directory, is NOT supplied by NETPMSA and must be obtained locally. .

SEE ORDERING INSTRUCTION #2

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### **Metric System**

NRTC EDITION: 1979  
NAVEDTRA NUMBER: 475-01-00-79  
ASSIGNMENTS: 2 POINTS: 3

ERRATA #1 DATED: 1990

TRAMAN EDITION: 1979  
NAVEDTRA NUMBER: 475-01-00-79  
NSN: 0507-LP-475-0010

Provides a brief history of measuring systems, effects of changing over to the International System (SI) of weights and measures, fundamentals of expressing weights and measures in SI units, standards of measurement, conversion factors, terminology, and writing style guides.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 100

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### **Military Justice Course**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 13098  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #2 DATED: 1989

This course covers the following topics about the military justice system; general provisions and applicability of the UCMJ; jurisdiction and composition of courts-martial; and scope of the punitive articles and essential elements needed to prove offenses under the articles.

**Special Information:** The text for this course, excerpts from *Manual of Courts-Martial and Judge Advocate General Manual, 1984 Edition*, is supplied by NETPMSA

SEE ORDERING INSTRUCTION #2

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### **Military Requirements for Senior and Master Chief Petty Officer**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82048  
NSN: 0503-LP-217-0800  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12048  
NSN: 0502-LP-217-0700

Provides subject matter related to the military qualifications of all senior and master chief petty officers. Provides information on Department of Defense organization, senior and master chiefs as principal enlisted advisors, organizational responsibility, management process, safety and training, resource management, inspections, directives, reports, and messages.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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### **Military Requirements for Chief Petty Officer**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82047  
NSN: 0503-LP-216-0400  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12047  
NSN: 0502-LP-216-0300

Provides subject matter related to the military qualifications of all chief petty officers. Provides information on naval tradition, military conduct and justice, leadership, management information and training, programs and policies, military requirements, safety and damage control, and security.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 35

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### **Military Requirements for Petty Officer First Class**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82046  
NSN: 0503-LP-216-2300  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12046  
NSN: 0502-LP-216-2200

Provides subject matter related to the military qualifications of all first class petty officers. Provides information on U.S. naval tradition; leadership and administrative responsibilities; programs and policies;

## GENERAL NONRESIDENT TRAINING

professional responsibilities; military requirements; safety and survival; and damage control.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 100

### ***Military Requirements for Petty Officer Second Class***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82045  
NSN: 0503-LP-215-7300  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12045  
NSN: 0502-LP-215-7200

Provides subject matter related to the military requirements for all petty officers second class. Included are discussions on naval organization; leadership programs and policies; professional development; training; personnel safety; chemical, biological, and radiological defense; damage control; and security requirements.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 75

### ***Military Requirements for Petty Officer Third Class***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82044  
NSN: 0503-LP-216-2100  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12044  
NSN: 0502-LP-216-1400

Provides subject matter related to the military qualifications of all petty officers third class. Included are discussions on sea power; leadership and supervision; military conduct and justice; human resources; professional development; military requirements; personnel safety; damage control; chemical, biological, and radiological defense; surface preservation; the ships' 3-M systems; and supply procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 150

### ***Military Sealift Command***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80829  
ASSIGNMENTS: 10 POINTS: 10

ERRATA #2 DATED: 1993

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10829-E  
NSN: 0502-LP-213-7400

Describes the MSC establishment, mission, organization, operations, financial management, ocean shipping (including problems of loading), preparedness, the Federal Maritime Commission and Maritime Administration.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 10

### ***Mineman 1 & C***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82432  
NSN: 0503-LP-213-9300  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12432  
NSN: 0502-LP-213-9200

This course is designed to prepare MN2 and MN1 personnel for advancement in rate. Upon completing this NRTC, the student will have demonstrated a knowledge of the subject matter by answering questions on the following: Organization of a MOMAG activity; programs related to mine warfare; administrative functions; supply procedures; mine readiness and associated reports; mine maintenance system and levels of planning maintenance; and the handling and stowage of explosive-loaded mine cases and mine subassemblies.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Mineman 3 & 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80166  
NSN: 0503-LP-500-0660  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10166-E  
NSN: 0502-LP-050-8320

This is an aid for enlisted Navy personnel preparing for advancement to MN3 or MN2. The course covers the history of mines; administration and supply procedures; mine maintenance; types of mines; mine components; handling and storage of explosive material; exercise and training mines; and other mine-related programs.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Missile Technician 1 & C, Vol 2***

TRAMAN/NRTC EDITION: 1982  
NAVEDTRA NUMBER: 10156  
NSN: 0502-LP-050-7715  
ASSIGNMENTS: 16 POINTS: 30

### ***Missile Technician 1 & C, Vol 1***

## GENERAL NONRESIDENT TRAINING

TRAMAN EDITION: 1982  
NAVEDTRA NUMBER: 10155  
NSN: 0502-LP-050-7715

Course, consisting of two textbooks and an assignment/question section in the back of Volume 2, is written as an aid to enlisted personnel of Navy preparing for advancement to Petty Officer 1 and C in the Missile Technician rating. The subject matter consists of advanced technician's information on the POSEIDON missile, the MK 24 launching system, the TRIDENT missile, the Mk 35 launching system, auxiliary equipment and handling equipment. A background in these subjects is required as a prerequisite to this course.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Missile Technician 3 & 2**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80153  
NSN: 0503-LP-500-0530  
ASSIGNMENTS: 7 POINTS: 12

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10153-F  
NSN: 0502-LP-050-7680

ERRATA #1 DATED: 1986  
NSN: 0502-LP-050-7681

This course is written as an aid to enlisted personnel of Navy preparing for advancement to PO3 and 2 in the Missile Technician rating. This is a beginning course with unique applications to POSEIDON and TRIDENT. Missile handling, testing, maintenance procedures; and administration are covered on a basic level. A knowledge of the basics of electricity/electronics, hydraulics, and pneumatics is prerequisite to this course.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Molder 3 & 2**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82207  
NSN: 0503-LP-477-3600  
ASSIGNMENTS: 15 POINTS: 22

### **Patternmaker/Molder**

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12207  
NSN: 0502-LP-477-3300

This course provides information about the operation of foundry operation aboard ships and at shore stations, emphasizing the following areas: installed shop equipment, handtools and power tools, foundry equipment, furnaces, molds and mold construction, coremaking, metals and

alloys, casting techniques, and heat treatment of castings. Wood joinery and finishing, patternmaking structural materials, blueprints and layout, math, pattern equipment and construction are also covered.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **NAVOSH Training Guide for Forces Afloat**

SP EDITION: 1991  
NAVEDTRA NUMBER: 10074  
NSN: 0502-LP-215-6100

The objective of this publication is to provide an effective and efficient means of meeting NAVOSH training goals. OPNAVINST 5100.19B, NAVOSH Program Manual for Forces Afloat defines required safety training subjects and periodicities. This guide consolidates occupational health and safety subject matter into generic lesson guides, complete with quizzes and handouts. It also provides lists of available training aids and videotapes, formal course information, a sample long range training plan, references and a technical assistance guide.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### **Naval Arctic Operations**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 10946-B5  
ASSIGNMENTS: 8 POINTS: 12

Covers arctic geography, weather, and ice conditions; preparations for arctic operations; and operations in the Arctic.

Special Information: The text for this course, *Naval Arctic Operations*, ATP 17(A), is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Naval Construction Force/Seabee Chief Petty Officer**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80600-A  
NSN: 0503-LP-217-6600  
ASSIGNMENTS: 7 POINTS: 12

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10600  
NSN: 0502-LP-211-7900

ERRATA #1 DATED: 1990  
NSN: 0502-LP-211-7901

Contains information pertaining to leadership and management, administration, facilities maintenance management, ROICC contract quality assurance, environmental pollution and hazardous materials management, project management, detail OIC/AOIC,

## GENERAL NONRESIDENT TRAINING

embarkation and mobilization, NCF contingency operations, NCF supply and logistics, and JAG investigations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 8

### ***Naval Construction Force/Seabee Petty Officer First Class***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80601  
NSN: 0503-LP-211-9700  
ASSIGNMENTS: 3 POINTS: 6

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10601  
NSN: 0502-LP-211-9100

Contains information pertaining to administration; leadership and supervision; blueprint reading and technical drawings; planning, estimating, and scheduling; advanced base planning, embarkation, and project turnover; and environmental pollution control.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 8

### ***Naval Control of Shipping***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82963  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 9309

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12963  
NSN: 0502-LP-215-1600

This course provides information about the basic aspects of naval control of merchant shipping and its supporting operations and functions in time of war. It specifically supports the Naval Reserve Naval Control of Shipping Organization Program and should be of interest to all naval and Naval Reserve officers who anticipate working with merchant marine units or convoy operations.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 5

### ***Naval Military Personnel Manual***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13087  
ASSIGNMENTS: 15 POINTS: 23

ERRATA #3 DATED: 9310

This course provides an overview of the Naval Military Personnel Manual which will enable the student to effectively use the manual to locate, understand and carry out Navy policy and procedures with respect to procurement, payment, leave, liberty, evaluation, discipline, separation, casualties, identification records, religious

observances, personal affairs, and education of naval personnel; and identify various correspondence, publications, forms and logs associated with personnel administration.

Special Information: The text for this course, *Naval Military Personnel Manual*, NAVPERS 15560A, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Naval Operations Analysis***

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 13102-A1  
ASSIGNMENTS: 7 POINTS: 14

This course is prepared to provide today's military officer a fundamental grasp of the quantitative methods available to assist him in the performance of his duty and the successful completion of his mission. It provides an undergraduate introduction to the use of quantitative methods in the solution of naval operations problems with additional coverage in the way of utility and value. It is therefore a course designed to present the application of the scientific Operations Analysis Method to two areas of interest to the naval officer--decision-making and the conduct of operations. It supplies a scientific approach to the resolution of operational problems; application of operations analysis to detection problems; introduction to system effectiveness and reliability; introduction to modern techniques of operations analysis. Successful completion of NRTC Mathematics, Part II-A (trigonometric analysis), Part II-B (calculus with analytic geometry) and an undergraduate course in probability and statistics, or their equivalents, represent the minimum knowledge a person should possess for enrollment in this course.

Special Information: The text for this course, *Naval Operations Analysis, Second Edition, United States Naval Institute, 1977*, is supplied by NETPMSA. Personnel in supervisory positions should inform students that considerable effort and concentration will be required to complete this course.

SEE ORDERING INSTRUCTION #2

### ***Naval Orientation***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82966  
ASSIGNMENTS: 12 POINTS: 24

ERRATA #1 DATED: 1993

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12966  
NSN: 0502-LP-213-4100

This course is designed to familiarize newly commissioned officers and various officer accession

## GENERAL NONRESIDENT TRAINING

program personnel with the rules, customs, and traditions of the Navy.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 30

### ***Naval Postal Officer***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80835  
ASSIGNMENTS: 4 POINTS: 2

ERRATA #1 DATED: 1991

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 10835  
NSN: 0502-LP-054-1550

This course provides junior officers, who have been tasked as collateral duty postal officers at commands where postal expertise is limited, with the information needed to manage and, when necessary to supervise their command's postal operations.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 5

### ***Naval Safety Supervisor***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82971  
NSN: 0503-LP-477-0600  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12971  
NSN: 0502-LP-477-0400

This course provides information about the history and role of the Department of the Navy Safety Program; safety program promotion and attitudes; mishap causes, prevention, and hazard abatement; mishap investigation fundamentals; Navy Occupational Safety and Health Program fundamentals; shore safety; afloat safety; naval aviation safety; explosives safety; traffic safety; and recreation, athletics, and home safety.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Naval Space***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82961  
NSN: 0503-LP-478-3300  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12961  
NSN: 0502-LP-217-8600

This course covers the historical developments of the Naval Space Program and the current civil and military space organizations. It contains chapters on space

environment, orbital mechanics, launch vehicle operations and processing, space systems engineering and operations, and the tactical use of space. It also includes a chapter on the space program of the former Soviet Union.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Navigation Rules Flash Cards***

SP EDITION: 1985  
NAVEDTRA NUMBER: 10925

These flash cards are used as a training aid in familiarization with Navigation rules, international and inland, COMDINST M16672.2A.

Special Information: This special publication must be ordered separately by NAVEDTRA number from NETPMSA. Commands must order on command letterhead and signed by the CO or designated official with "By Direction" authority. Send Requests to:

COMMANDING OFFICER  
NETPMSA CODE 074  
6490 SAUFLEY FIELD RD.  
PENSACOLA, FL 32509-5237

### ***Navy Admiralty Law Practice***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 10725-B  
ASSIGNMENTS: 2 POINTS: 4

This course provides a practical guide to the action necessary to protect the interests of the government when an officer is confronted with, or involved in, a situation out of which an admiralty claim may arise. Also explains, in brief, the viewpoint, practices, procedures, and general responsibilities of the Navy in admiralty matters.

Special Information: The texts for this course, *Manual of Judge Advocate General, JAGINST 5800.7B, Chapter 12 and Appendix A-12a*, with change 7 incorporated, and *Admiralty Law and Its Application in Navy Claims Practice: A Primer* by LCDR Kevin P. McMahon, JAGC, USN, are included in the course.

SEE ORDERING INSTRUCTION #2

### ***Navy Correspondence Manual Course***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 13091  
NSN: 0503-LP-217-3100  
ASSIGNMENTS: 2 POINTS: 2

ERRATA #1 DATED: 1990  
NSN: 0503-LP-217-3101

This course covers the mechanics of writing; the format and elements that make up the standard letter; the multiple-address letter; endorsements; memoranda and the business letter; mechanics of addressing and mailing; personnel matters; and correspondence management practices.

## GENERAL NONRESIDENT TRAINING

**Special Information:** The text for this course, *Department of the Navy Correspondence Manual*, SECNAVINST 5216.5C, is NOT supplied and must be obtained by the student.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### ***Navy Counselor (C) 1 & C Part 1***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13068  
NSN: 0503-LP-476-8800  
ASSIGNMENTS: 3 POINTS: 4

This course covers the role and scope of the retention team and the duties and responsibilities of team members. Provides a broad review of the following subjects: counseling techniques, enlisted and officer counseling, career reenlistment objective (CREO), incentive programs, education programs, commissioning programs, Naval Reserve programs, Uniformed Service Health Benefits Program (USHBP), survivors benefits, veterans benefits, family counseling, and Fleet Reserve and retirement.

**Special Information:** The text for this NRTC, *Retention Team Manual (NAVPERS 15878H)*, is NOT supplied with the course and must be obtained by the student.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### ***Navy Counselor (R) 1 & C Part 1***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13070  
ASSIGNMENTS: 3 POINTS: 5

This course covers the following subject areas: eligibility requirements, waiver requirements; processing, classification, and special recruit company requirements; testing, processing, procedures, and forms and documents; and programs.

**Special Information:** The text for this NRTC, *Navy Recruiting Manual - Enlisted (COMNAVCRUITCOMINST 1130.8 series)*, is NOT supplied and must be obtained by the student.

SEE ORDERING INSTRUCTION #2

### ***Navy Counselor (R) 1 & C, Part 2***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 13071  
ASSIGNMENTS: 2 POINTS: 3

This course covers the following subject areas: recruiting station operation and security requirements; administrative requirements, prospect card and marketing analysis system; goaling and territory distribution; prospecting methods; DEP management, telephone techniques; ERPMS requirements processing procedures, effective sales presentation; and NRS inspection requirements.

**Special Information:** The text for this NRTC, *Science and*

*Art of Navy Recruiting Manual (COMNAVCRUITCOMINST 1133.4 series)*, is NOT supplied and must be obtained by the student.

SEE ORDERING INSTRUCTION #2

### ***Navy Counselor 1 & C, Part IV***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 010-04-69-90  
NSN: 0507-LP-212-3700  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #2 DATED: 9308  
NSN: 0507-LP-212-3702

### ***Career Information Program Management***

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10238-A  
NSN: 0502-LP-212-3600

This course covers the role and responsibilities of the command career counselor, the techniques involved in setting up and maintaining a retention/center information program, the procedures involved in decentralizing the retention team, the duties of the retention/career information program manager, career information communication systems, the interview system, enlisted service records, and general administration. This course covers the role and responsibilities of the command career counselor, the techniques involved in setting up and maintaining a retention/center information program, the procedures involved in decentralizing the retention team, the duties of the retention/career information program manager, career information communication systems, the interview system, enlisted service records, and general administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 2

### ***Navy Customer Service Manual***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82972  
NSN: 0503-LP-477-3800  
ASSIGNMENTS: 1 POINTS: 2

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12972  
NSN: 0502-LP-477-3700

Presents the importance of proper attitude and its effect on everyday performance and stresses the need for developing positive attitudes in interpersonal relationships.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## GENERAL NONRESIDENT TRAINING

### ***Navy Instructional Theory***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 834  
ASSIGNMENTS: 5 POINTS: 8

### ***Navy Instructor Manual***

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 134  
NSN: 0502-LP-219-8800

Provides knowledge factors and background information on the theory and techniques of Navy classroom instruction. This course is a prerequisite for Naval Reservists in preparation for the two week group-paced instructor course. The nonresident training course covers Navy training, the Navy instructor, motivation, principles of learning, effective communications, instructional methods, learning objectives, testing, course materials, and instructor evaluation.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 15

### ***Navy Photographer's Mate Training Series, Module 1--Naval Photography***

SP EDITION: 1981  
NAVEDTRA NUMBER: 373-01-00-81  
NSN: 0507-LP-373-0100

Module 1 NAVAL PHOTOGRAPHY is one of the textbooks in the Navy Photographer's Mate Training Series. This module was written especially for the men and women of the Navy and Naval Reserve. It serves as an introduction to Naval Photography and the Photographer's Mate Rating.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Navy Photographer's Mate Training Series, Module 2--Still, Motion Picture and Television Photography***

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 373-02-45-83  
NSN: 0507-LP-373-0200  
ASSIGNMENTS: 12 POINTS: 16

ERRATA #2 DATED: 1991  
NSN: 0507-LP-373-0202

Module 2 is a complete look at principles associated with photography such as light, optics, cameras, and equipment which the PH must be familiar with to make practical application of the procedures and techniques. The subjects covered include: location photography, portrait and studio photography, television and motion picture photography, and aerial photography.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Navy Photographer's Mate Training Series, Module 3--Laboratory Procedures, Processing and Printing B&W and Color Materials***

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 373-03-45-83  
NSN: 0507-LP-373-0300  
ASSIGNMENTS: 12 POINTS: 16

ERRATA #2 DATED: 1991  
NSN: 0507-LP-373-0302

Module 3 covers the principles of processing and printing black and white and color materials. Some of the areas covered include laboratory procedures, processing and printing color photography, machine processing, basic 3-M maintenance, and audiovisual administration and supply.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Navy Photographer's Mate Training Series, Module 4--Audiovisual Production, Quality Assurance and Specialized Photography***

TRAMAN/NRTC EDITION: 1988  
NAVEDTRA NUMBER: 373-04-67-88  
NSN: 0507-LP-217-2700  
ASSIGNMENTS: 9 POINTS: 12

ERRATA #1 DATED: 1991  
NSN: 0507-LP-217-2701

Module 4 brings to the reader some of the more advanced fields of naval photography. The areas covered include: slide presentation, motion picture and television production, quality assurance, planning aerial photographic missions, and specialized photography.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Navy Regulations***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13082  
ASSIGNMENTS: 4 POINTS: 8

To provide an overview of the United States Navy Regulations, 1990, so that students will become familiar with its authority, use, and content, including: statutory authority for U.S. Navy Regulations; the Department of the Navy; Chief of Naval Operations; the Commandant of the Marine Corps; the U.S. Coast Guard; Commanders in chief and other commanders; the commanding officer, senior officer present, precedence, authority and command; general

## GENERAL NONRESIDENT TRAINING

regulations; and flags, pennants, honors, ceremonies, and customs.

Special Information: The text for this course, *United States Navy Regulations, 1990*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Navy School Management Manual***

SP EDITION: 1992  
NAVEDTRA NUMBER: 135  
NSN: 0502-LP-220-7200

ERRATA #1 DATED: 9308  
NSN: 0502-LP-220-7201

This manual provides the processes, procedures, and documentation required for the management of NAVEDTRACOM schools. It is intended to provide a single primary source of procedural guidance for implementing policy established by OPNAV and CNET instructions currently in effect. Following a description of organizational structure and responsibilities of the NAVEDTRACOM chain of command, this manual discusses in detail four functions typically performed in the training environment. These are:

- Staff Management
- Student Management
- Curriculum Management
- Evaluation Management

The manual concludes with a discussion of *Support Functions* available to the Navy Education and Training Command, for example, NITRAS, contract management, and automated data processing.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 15

### **Navy Electricity and Electronic Training Series (NEETS)**

#### ***NEETS, Module 1--Introduction to Matter, Energy, and Direct Current***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 173-01-00-88  
NSN: 0507-LP-214-1300  
ASSIGNMENTS: 3 POINTS: 6

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 872-01-00-92  
NSN: 0507-LP-217-7300

Module 1 presents information on matter make up and behavior of matter, magnetism, methods of producing electricity, and direct current problem solving. Topic 1 presents information on matter, energy, electricity, and symbology. Topic 2 discusses batteries. Included are discussions on the battery cell, chemical processes, polarization, uses, and safety precautions. Topic 3

introduces direct current circuits and explains many of the formulas that are used routinely in electricity.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

#### ***NEETS, Module 2--Introduction to Alternating Current and Transformers***

TRAMAN/NRTC EDITION: 1991  
NAVEDTRA NUMBER: 172-02-00-91  
NSN: 0507-LP-216-2900  
ASSIGNMENTS: 4 POINTS: 10

Module 2 is an introduction to alternating current theory and power supplies. Topic 1 discusses the differences between alternating and direct current, magnetism, generation of alternating current, and characteristics of sine waves. Topic 2 introduces inductance characteristics, such as electromotive force, self inductance, and mutual inductance. Topic 3 introduces capacitance. Discussions are presented on the electrostatic field, capacitor characteristics, and series and parallel capacitive circuits. Topic 4 presents information on inductive and capacitive reactance, power in reactive circuits, and power factors. Topic 5 describes transformer characteristics.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

#### ***NEETS, Module 3 -- Introduction to Circuit Protection, Control, and Measurement***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 172-03-00-93  
NSN: 0507-LP-477-6800  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 872-03-00-93  
NSN: 0507-LP-477-6700

Module 3 presents information on circuit measurements, circuit protection devices, and circuit control devices. Topic 1 discusses basic ohmmeters, ammeters, voltmeters, wattmeters, and frequency meters. Topic 2 discusses circuit protection devices, such as fuses and circuit breakers. Topic 3 discusses switches, solenoids, and relays.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

#### ***NEETS, Module 4--Introduction to Electrical Conductors, Wiring Techniques and Schematic Reading***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 172-04-00-92  
NSN: 0507-LP-217-8400  
ASSIGNMENTS: 2 POINTS: 3

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 872-04-00-92  
NSN: 0507-LP-217-8300



## GENERAL NONRESIDENT TRAINING

Introduces electrical conductors, wiring techniques, and schematics. Topic 1 covers wire characteristics and insulation. Topic 2 covers conductor wiring techniques, including splicing, soldering, and lacing. Topic 3 covers schematic reading, marking systems, and some basic safety practices and precautions.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 5--Introduction to Generators and Motors***

NRTC EDITION: 1982  
NAVEDTRA NUMBER: 173-05-00-82  
NSN: 0507-LP-173-0500  
ASSIGNMENTS: 1 POINTS: 4

TRAMAN EDITION: 1979  
NAVEDTRA NUMBER: 172-05-00-79  
NSN: 0507-LP-172-0500

Module 5 introduces the fundamental concepts of generators and motors. Topic 1 discusses the various parts that make up a direct current generator. Topic 2 presents direct current motors. Topic 3 presents information on the alternating current generator. Topic 4 provides information on alternating current motors.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 6--Introduction to Electronic Emission, Tubes, and Power Supplies***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 172-06-00-92  
NSN: 0507-LP-217-8100  
ASSIGNMENTS: 3 POINTS: 5

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: B72-06-00-92  
NSN: 0507-LP-217-7900

Module 6 presents an introduction to the theory of electronic emission and electron tubes. Topic 1 covers the construction, function, and theory of operation of the diode, triode, tetrode, and pentode. Topic 2 presents special-purpose tubes. The basic vacuum-tube power supply, including voltage and current regulation, and the methods used to isolate faulty components are covered in Topic 3.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 7--Introduction to Solid-State Devices and Power Supplies***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 172-07-00-92  
NSN: 0507-LP-218-7600  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1992

NAVEDTRA NUMBER: B72-07-00-92  
NSN: 0507-LP-218-7400

Module 7 is an introductory training manual dealing with solid-state devices and power supplies on a basic level. It presents a basic discussion of electron and hole flow in semiconductor devices and explains the construction, function, and theory of operation of the transistor. Also covered are the purpose modular circuitry and the advantages of integrated circuits over conventional transistor circuits, and the construction and use of the other solid-state devices such as the Zener diode, tunnel diode, varactor, silicon-controlled rectifier, triac, unijunction transistor, and the more commonly used opto-electric devices. Fundamentals of solid-state power supplies are also covered.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 8--Introduction to Amplifiers***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 173-08-00-87  
NSN: 0507-LP-173-0805  
ASSIGNMENTS: 2 POINTS: 4

TRAMAN EDITION: 1982  
NAVEDTRA NUMBER: 172-08-00-82  
NSN: 0507-LP-172-0800

Module 8 presents an introduction to what amplification is and how different types and classes of amplifiers affect amplification. Topic 1 discusses audio amplifiers. Topic 2 discusses video amplifiers and radio frequency amplifiers. Topic 3 presents differential, operational, and magnetic amplifiers. Factors which affect how an amplifier performs, such as impedance, feedback frequency response, and coupling, are also explained.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 9--Introduction to Wave-Generation and Wave-Shaping Circuits***

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 173-09-00-85  
NSN: 0507-LP-173-0905  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1983  
NAVEDTRA NUMBER: 172-09-00-83  
NSN: 0507-LP-172-0900

Module 9 is an introduction to electronic wave-generating and wave-shaping circuits. Topic 1 discusses tuned circuits, resonance, resonant circuits, filter circuits, bandwidth, and special safety precautions to be observed when repairing tuned circuits. Topic 2 presents fundamental oscillator theory, including circuit configuration and frequency and amplitude stability of circuits. Topic 3 presents various waveforms, and waveform-generating circuits such as multivibrators, blocking oscillators, and

## GENERAL NONRESIDENT TRAINING

time-based generators. Topic 4 describes limiters, clappers, differentiators, integrators, and counters.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 10--Introduction to Wave Propagation, Transmission Lines, and Antennas***

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 173-10-00-85  
NSN: 0507-LP-173-1005  
ASSIGNMENTS: 4 POINTS: 7

TRAMAN EDITION: 1983  
NAVEDTRA NUMBER: 172-10-00-83  
NSN: 0507-LP-172-1000

Module 10 is an introduction to wave propagation, transmission lines, and antenna theory. Topic 1 discusses wave motion, sound-wave terminology, light waves, properties of electromagnetic waves and the electromagnetic spectrum. Topic 2 discusses radio-wave propagation including components of radio waves, electromagnetic fields, and effects of the Earth's atmosphere and terrain on radio waves. Transmission line theory is presented in Topic 3 and includes terminology, types of lines, losses, length of lines and discussions on characteristic impedance, electromagnetic fields, line reflections, standing waves, and standing-wave ratio. Finally, Topic 4 discusses several antennas, including the Hertz, Marconi, several arrays, and special antennas.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 11--Microwave Principles***

NRTC EDITION: 1985  
NAVEDTRA NUMBER: 173-11-00-85  
NSN: 0507-LP-173-1105  
ASSIGNMENTS: 2 POINTS: 6

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: 172-11-00-87  
NSN: 0507-LP-172-1105

Module 11 presents an introduction to microwave principles. Topic 1 introduces waveguides in terms of theory and application; various waveguide devices are explained. Topic 2 describes microwave components and circuits. Microwave components, tube principles and types, the decibel measurement system, and solid-state microwave devices are covered. Topic 3 describes microwave antennas. Antenna characteristics, reflector antennas, horn radiators, lens antennas, arrays, and frequency sensitive antennas are explained.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 12--Modulation Principles***

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 172-12-00-83  
NSN: 0507-LP-172-1200  
ASSIGNMENTS: 3 POINTS: 7

Module 12 presents information on the fundamental concepts of amplitude modulation, angle and pulse modulation, and demodulation. Topic 1 describes the theory of sine-wave generation and heterodyning. Also described are continuous-wave and amplitude-modulated systems. Topic 2 describes frequency, phase, and pulse modulation. Amplitude-, time-, duration-, position-, frequency-, and code-pulse modulation are explained. Topic 3 describes demodulation theory for continuous-wave, and amplitude-, frequency-, phase-, and pulse-modulated demodulators.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 13--Introduction to Number Systems and Logic Circuits***

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 172-13-00-86  
NSN: 0507-LP-172-1315  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 872-13-00-86  
NSN: 0507-LP-172-1310

Module 13 presents the fundamental concepts of number systems and logic circuits which pertain to digital equipment. Topic 1 describes unit, number, base/radix, positional notation, most- and least- significant digit, carry and borrow principles, and the decimal-, binary-, octal-, hexadecimal-, and binary-coded decimal-number systems. Techniques for converting from one system to another are covered. Topic 2 includes computer logic; AND, OR, NAND, and NOR gates; inverters; and Boolean algebra. Topic 3 presents exclusive OR and exclusive NOR circuits, adders, flip-flops, clocks, counters, registers, and logic families.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 14--Introduction to Microelectronics***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 172-14-00-84  
NSN: 0507-LP-172-1400  
ASSIGNMENTS: 2 POINTS: 4

Module 14 presents information on the fundamental concepts of microelectronics, solid-state devices, and integrated circuits. Fabrication, packaging techniques, and equivalent circuits are discussed. Topic 2 discusses the Navy's 2M program including certification requirements, levels of maintenance, repair stations, 2M facilities, high-reliability soldering techniques, and test equipment. Topic

## GENERAL NONRESIDENT TRAINING

3 covers removal/replacement/repair of miniature and microminiature components, and safety precautions.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS Module 15 -- Principles of Synchros, Servos, and Gyros***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 172-15-00-93  
NSN: 0507-LP-476-6100  
ASSIGNMENTS: 2 POINTS: 3

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: B72-15-00-93  
NSN: 0507-LP-476-5900

ERRATA #1 DATED: 9311  
NSN: 0507-LP-476-5901

Module 15 presents general information on synchros, servos, gyros, and related devices. Topic 1 presents the theory of operations and alignment procedures for synchros. Topic 2 discusses servo systems, schematic and block diagrams, circuit component characteristics, and the components and data flow of a typical system. Topic 3 discusses characteristics, properties, components and other factors concerning the gyroscope. Topic 4 discusses related devices and compares standard synchro system connections with IC synchro connections, explains step-transmitter and receiver operation, and compares a resolver to a transformer.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 16--Introduction to Test Equipment***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 172-16-00-84  
NSN: 0507-LP-172-1600  
ASSIGNMENTS: 4 POINTS: 5

Module 16 presents general information on the fundamental concepts of test equipment. Topic 1 discusses basic test equipment operating procedures and safety information. Topic 2 introduces the various types of measurements described in the module. Topic 3 describes the basic circuitry used in most Navy test equipment. Topic 4 covers common Navy test equipment. Topic 5 discusses the most common oscilloscopes used in the Navy. Topic 6 covers special-purpose test equipment common to many areas of electricity. Topic 7 discusses introductory information in the care, repair, and calibration of test equipment.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 17--Radio-Frequency Communications Principles***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 172-17-00-84  
NSN: 0507-LP-172-1700  
ASSIGNMENTS: 3 POINTS: 7

Module 17 presents general information on the fundamental concepts of radio-frequency communications. Topic 1 introduces the types of electrical telecommunications, their modes of operations, and Navy frequency band usage. Topic 2 discusses transmitters, receivers, and their control circuitry. Topic 3 describes equipment interfacing, teletypewriter and facsimile operations, security, quality monitoring, and safety. Topic 4 addresses a basic satellite communications system, equipment characteristics, theory of operation, and applications, both present and future. Topic 5 covers the lower frequency bands usage, microwave systems, the Naval Tactical Data System, portable equipment, and laser theory and applications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 18--Radar Principles***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 172-18-00-84  
NSN: 0507-LP-172-1800  
ASSIGNMENTS: 3 POINTS: 7

Module 18 presents general information on radar theory, equipment, and maintenance. Topic 1 introduces basic radar concepts, principles of operation, transmission methods, and common types of radar systems. Topic 2 discusses major units of a radar including synchronizers, transmitters, duplexers, and receivers. Topic 3 addresses radar indicators and antennas. Topic 4 covers transmitter and receiver performance checks, radar support systems, and safety considerations peculiar to radar operation.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 19--The Technician's Handbook***

SP EDITION: 1992  
NAVEDTRA NUMBER: B72-19-00-92  
NSN: 0507-LP-218-5600

Module 19 provides the technician who works in the electrical and electronics fields a ready reference manual that will be of assistance during everyday work. It begins with information on mishap prevention and first aid, then covers other information useful to the technician such as commonly used formulas, data tables, general maintenance

## GENERAL NONRESIDENT TRAINING

hints, and a listing of often used publications and documents.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 20--Master Glossary and Index***

SP EDITION: 1985  
NAVEDTRA NUMBER: 172-20-00-85  
NSN: 0507-LP-172-2000

Module 20 provides a ready reference source for the NEETS student. It begins with an alphabetized master glossary of the terms used throughout the NEETS. The second half of the module provides an alphabetized master index of subjects, terms, headings, and emphasized areas found throughout the NEETS. The listing is cross-indexed and broken-down to topic and page.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 21--Test Methods and Practices***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 172-21-00-87  
NSN: 0507-LP-172-2105  
ASSIGNMENTS: 3 POINTS: 9

TRAMAN EDITION: 1987  
NAVEDTRA NUMBER: B72-21-00-87  
NSN: 0507-LP-172-2100

Module 21 presents information on the fundamental concepts of test methods and practices. It is written with the junior practicing technician in mind and based on Electronics Installation and Maintenance Handbook (EIMB), TEST METHODS AND PRACTICES. There are five topics: "Basic Measurements," Component Testing, "Quantitative Measurements," "Qualitative Measurements," and "Waveform Interpretation."

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 22--Introduction to Digital Computers***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 172-22-00-88  
NSN: 0507-LP-215-1900  
ASSIGNMENTS: 4 POINTS: 4

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: B72-22-00-88  
NSN: 0507-LP-214-9600

Module 22 introduces fundamental concepts of digital computers. Topic 1 discusses the history, classifications, and operational concepts of digital computers. Topic 2 presents information on hardware: central processing unit,

computer storage, and input/output devices. Topic 3 covers software; operating systems, utility programs, programming, and packaged software. Topic 4 covers data representation, computer coding systems, data storage concepts, and networks.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 23--Magnetic Recording***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 172-23-00-91  
NSN: 0507-LP-215-8800  
ASSIGNMENTS: 2 POINTS: 2

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: B72-23-00-91  
NSN: 0507-LP-215-7900

Module 23 introduces fundamental concepts of recording on magnetic tape and disks. Topic 1 states the prerequisites for magnetic recording and describes magnetic recording heads. Topic 2 describes types of magnetic tape, types of tape errors, causes of tape failure, methods of erasing tape, and procedures for handling tape. Topic 3 describes tape recorder heads and preventive maintenance requirements. Topic 4 describes tape transport systems, tape reeling systems, capstan speed control methods, and cleaning procedures. Topic 5 describes the function and main parts of a tape recorder's record and reproduce electronics. Topic 6 describes the seven most common magnetic tape recording specifications. Topic 7 describes the characteristics of digital magnetic tape recording. Topic 8 describes how floppy and hard disks are constructed, how data is recorded on them, and how they are handled and erased.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***NEETS, Module 24--Introduction to Fiber Optics***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 172-24-00-92  
NSN: 0507-LP-218-0200  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: B72-24-00-92  
NSN: 0507-LP-218-0100

Module 24 presents general information on fiber optics and optical fibers. It encompasses the background on fiber optics; fiber optic concepts; optical fibers and cables; optical splices, connectors, and couplers; fiber optic measurement techniques; optical sources and fiber optic transmitters;

## GENERAL NONRESIDENT TRAINING

optical detectors and fiber-optic receivers; and fiber optic systems.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

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### ***Ocean Systems Technician A 1 & C***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80139  
NSN: 0503-LP-500-0390  
ASSIGNMENTS: 5 POINTS: 5

ERRATA #1 DATED: 1990  
NSN: 0503-LP-500-0391

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10139  
NSN: 0502-LP-050-6900

Covers the duties and responsibilities of senior OTA personnel in five major areas: administration, messages and operational reports, advanced acoustic analysis, resource allocation, and operational and tactical support.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Ocean Systems Technician (Analyst) 2***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80173  
NSN: 0503-LP-212-9300  
ASSIGNMENTS: 5 POINTS: 7

ERRATA #1 DATED: 1991  
NSN: 0503-LP-212-9301

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10173  
NSN: 0502-LP-212-9200

Provides information on general administration, equipment operation, acoustic analysis, positioning techniques, and operational messages.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Ocean Systems Technician (Analyst) 3***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80172  
NSN: 0503-LP-213-8100  
ASSIGNMENTS: 10 POINTS: 10

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10172  
NSN: 0502-LP-213-6100

Provides information on security and administration, physics of sound, basic analysis, surface ship analysis, subsurface acoustic characteristics, bearing determination, operational reporting and evaluation procedures, and operator maintenance and safety.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Ocean Systems Technician (Maintainer)***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82471  
NSN: 0503-LP-220-5700  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12471  
NSN: 0502-LP-220-5600

Provides information on administration, field changes and test equipment, IUSS computers and peripherals, power distribution and front-end equipment, IUSS subsystems, and IUSS systems tests and diagnostics.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Oceanography***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13079  
ASSIGNMENTS: 2 POINTS: 4

This course covers the historical concepts of oceanography. It also covers the physical and energy relationships which affect oceans and the earth beneath them; the chemical aspects of the oceans and how they affect life in and around the oceans. Finally it provides an understanding of the complex interactions between air, sea, earth, and life, and how man and time are affecting these interrelationships.

Special Information: The text for this course, *Oceanography, Sixth Edition*, M. Grant Gross, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### ***Operations Specialist 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82126  
NSN: 0503-LP-476-6300  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12126  
NSN: 0502-LP-476-6200

## GENERAL NONRESIDENT TRAINING

Covers information and CIC procedures for personnel performing duties as Operations Specialist 1st and Chief. The CIC functions include Organization and Procedures, Navigation and Rules of the Road, Surface Operations, Amphibious Warfare, NGFS, ASW, Communications, Operational Reports, EW-EMCON, Safety and Casualty Procedures, Training, and Security and Emergency Destruction.

Special Information: WARNING! This course is classified NATO CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Operations Specialist 2**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80106  
NSN: 0503-LP-212-9100  
ASSIGNMENTS: 8 POINTS: 12

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10106  
NSN: 0502-LP-212-8900

This course is designed to prepare the prospective OS2 for advancement in rate. Upon completing this NRTC, the student will have demonstrated a knowledge of the subject matter by answering questions on the following: radar fundamentals, scope interpretation, electronic warfare, tactical procedures, anti-air warfare, antisubmarine warfare, antisurface warfare, naval gunfire support, and tactical data systems.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### **Operations Specialist 3**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80105  
NSN: 0503-LP-500-0050  
ASSIGNMENTS: 9 POINTS: 18

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10105  
NSN: 0502-LP-050-5200

This course is designed to prepare the prospective OS3 for advancement in rate. Upon completing this NRTC the student will have demonstrated knowledge of the subject matter by answering questions on the following: missions and functions of CIC, internal communications, external communications, logs, records, publications, surveillance radars, safety, radar display equipment, identification equipment, charts, grids, radar navigation, dead-reckoning systems, plotting, and maneuvering board.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Opticalman 1 & C**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82217  
NSN: 0503-LP-214-5300  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12217  
NSN: 0502-LP-214-5200

This course covers administration and supervision of an optical ship; quality assurance procedures; optical alignment theory, equipment and procedures; overhaul work packages; optical calibration publications and records; submarine periscopes, types, configurations, systems maintenance, and removal and reassembly procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Opticalman 2**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80215-A  
NSN: 0503-LP-214-0800  
ASSIGNMENTS: 5 POINTS: 12

### **Opticalman 3 & 2**

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10215  
NSN: 0502-LP-218-8200

This course is designed to provide follow-on knowledge to the Opticalman 3 NRTC in the theory and design of optical equipment. It also provides a follow-on knowledge concerning the overhaul, repair, and calibration procedures associated with telescopes, binoculars, navigation instruments, gunsights, rangefinders, periscopes, and night-vision sights.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### **Opticalman 3**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 70215-A  
NSN: 0503-LP-214-0700  
ASSIGNMENTS: 9 POINTS: 12

### **Opticalman 3 & 2**

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10215  
NSN: 0502-LP-218-8200

This course is designed to provide a basic knowledge of the Opticalman rating and of the theory and design features

## GENERAL NONRESIDENT TRAINING

associated with optical equipment. It also provides a basic understanding of the overhaul, repair, and calibration procedures associated with telescopes, binoculars, navigation instruments, gunsights, rangefinders, periscopes, and night-vision sights.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Patternmaker/Molder 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 62207  
NSN: 0503-LP-477-3400  
ASSIGNMENTS: 6 POINTS: 9

### ***Patternmaker/Molder***

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12207  
NSN: 0502-LP-477-3300

This course provides the supervisor information on the operation of pattern shop and foundry operation aboard ships and at shore stations. Coverage includes installed shop equipment and tools usage; wood joinery and finishing; patternmaking to include wood joinery and finishing and structural materials; blueprints and layout; pattern equipment and construction, foundry equipment; molds and mold construction, including cores; metals and alloys; casting techniques and heat treatment of castings.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Patternmaker 3 & 2***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 72207  
NSN: 0503-LP-477-3500  
ASSIGNMENTS: 12 POINTS: 22

### ***Patternmaker/Molder***

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12207  
NSN: 0502-LP-477-3300

This course provides information about the operation of pattern shop aboard ships and at shore stations, emphasizing the following areas: installed shop equipment, handtools and power tools, wood joinery and finishing, patternmaking structural materials, blueprints and layout, math, pattern equipment and construction. Foundry equipment, furnaces, molds and mold construction, coremaking, metals and alloys, casting techniques, and heat treatment of castings are also covered.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Personnelman 1 & C***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82606  
NSN: 0503-LP-217-8800  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12606  
NSN: 0502-LP-217-8700

This course covers office occupations and management; counseling service members; tuition assistance; enlisted advancement system; personnel casualty reports; manpower management; morale services; conferences and ceremonies.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

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### ***Personnelman 2***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80250  
NSN: 0503-LP-213-0100  
ASSIGNMENTS: 4 POINTS: 6

ERRATA #2 DATED: 1992  
NSN: 0503-LP-213-0102

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10250  
NSN: 0502-LP-212-9900

This training manual covers the educational service office functions performed by Personnelmen. It covers the occupational standards unique to the rate of PN2 and prepares personnel who are participating for advancement in the Personnelman field. Subjects covered include the Navy Advancement System; the administration of the Navy's records disposition program; training, educational, and officer programs offered by the Navy; processing personnel security investigations; and the Navy's morale and personal affairs programs.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 40

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### ***Personnelman 3***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80249  
NSN: 0503-LP-213-5600  
ASSIGNMENTS: 6 POINTS: 9

ERRATA #4 DATED: 1993  
NSN: 0503-LP-213-5604

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10249  
NSN: 0502-LP-213-5400

This course acquaints the trainee with various types of offices in which a PN works, including PSDs and personnel offices aboard ship. It covers the basic responsibilities of personnel assigned to Navy personnel offices including how

## GENERAL NONRESIDENT TRAINING

to counsel personnel concerning Navy ratings; preparation of associated pay and personnel documents; the maintenance of publications, files, directives, and service records; and the processing of separations, reenlistments, transfers, receipts, leave authorizations, and other related material via the Source Data System.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

### ***Personnel Performance Profile Based Curriculum Development Manual, Vol I, Developer's Guide***

SP EDITION: 1993  
NAVEDTRA NUMBER: 131  
NSN: 0502-LP-477-4600

Provides the step-by-step guidance for developing effective training materials using a personnel performance profile (PPP) method. The chapters in this volume correspond with sample figures and diagrams presented in Volume II of this manual. A supplement is included with this volume that contains curriculum development aids (job sheets) that help the developer construct curriculum materials and course documentation

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Personnel Performance Profile Based Curriculum Development Manual, Vol II, Sample Products***

SP EDITION: 1993  
NAVEDTRA NUMBER: 131  
NSN: 0502-LP-477-4700

Provides samples of the curriculum materials that make up a course of instruction developed under the personnel performance profile (PPP) based method. The sample products correspond to the stages of curriculum development presented in Volume I of this manual. Volumes I and II are designed to be used together.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Personnel Performance Profile Based Curriculum Development Manual, Vol III, Manager's Guide***

SP EDITION: 1993  
NAVEDTRA NUMBER: 131  
NSN: 0502-LP-477-4800

Presents management information important to the planning, analysis, design, development, implementation, and evaluation of curriculum developed under a personnel performance profile (PPP) method. Establishes the

requirements for submission and review of various products developed under the PPP method.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### ***Petty Officer Indoctrination Course, Instructor's Guide***

SP EDITION: 1993  
NAVEDTRA NUMBER: 38201  
NSN: 0502-LP-220-7400

Designed as part of an on board training package in support of the Navy Leader Development Program to assist newly appointed petty officers third class in preparing for their new roles. The guide for the instructor includes all material covered in the Student's Journal in outline form plus suggested instructor activities and instructional notes.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 10

### ***Petty Officer Indoctrination Course, Student's Journal***

SP EDITION: 1993  
NAVEDTRA NUMBER: 38200  
NSN: 0502-LP-220-7300

Designed as part of an on board training package in support of the Navy Leader Development Program to assist newly appointed petty officers third class in preparing for their new roles. The journal is a narrative text covering nine subject areas: Roles and Responsibilities of a Petty Officer, Developing Leadership and Management Skills, Basic Needs and Human Behavior, Communicating with Others, Standards in the Navy, Counseling, Discipline, Military Justice and the Petty Officer, Pride, Professionalism, and Personal Excellence.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 150

### ***Photography (Basic)***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82700  
NSN: 0503-LP-219-0900  
ASSIGNMENTS: 10 POINTS: 15

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12700  
NSN: 0502-LP-219-0800

This course provides the basic information and techniques involved in Navy photography. It includes theory of light and optical principles; light sensitive materials; photographic filters; still cameras and controls; basic photographic techniques; photographic assignments; portraiture; copying;



## GENERAL NONRESIDENT TRAINING

chemical mixing; image processing and control; black-and-white printing; color printing; motion media; and job control and photographic finishing.

SEE ORDERING INSTRUCTION # 1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Postal Clerk 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82602  
NSN: 0503-LP-219-3300  
ASSIGNMENTS: 9 POINTS: 14

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12602  
NSN: 0502-LP-219-3100

Provides a general knowledge of the following subject areas: General postal administration; security; postal supplies and equipment; financial administration; managing postal meter operations; customer services, information, complaints, and inquiries; mail handling reports, inspections, and training, and the official mail management program.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Postal Clerk 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80222  
NSN: 0503-LP-500-1220  
ASSIGNMENTS: 4 POINTS: 3

ERRATA #2 DATED: 9312  
NSN: 0503-LP-500-1222

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10222  
NSN: 0502-LP-051-1100

This course covers the Military Postal Service, incoming mail procedures, mail routing, and post office management.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Postal Clerk 3***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80223  
NSN: 0503-LP-500-1230  
ASSIGNMENTS: 16 POINTS: 16

ERRATA #4 DATED: 9308  
NSN: 0503-LP-500-1233

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10223  
NSN: 0502-LP-051-1120

This course covers the Military Postal Service, mail packaging and acceptance, domestic mail rates and

classifications, special services, international mail, money orders, fixed credit accounts and postage meter machines, outgoing mail, incoming mail, transportation of military mail, mail directory service, registered mail, audits, inspections, reports, and records, claims and inquiries, postal supplies and customs.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### ***Principles of Naval Engineering***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82960  
ASSIGNMENTS: 22 POINTS: 33

ERRATA #2 DATED: 9310

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12960  
NSN: 0502-LP-213-9400

Provides an introduction to the theory and design of engineering machinery and equipment aboard ship. Also provides a general knowledge of shipboard engineering plants and the basic theoretical considerations that underlie the design of machinery and equipment. Provides information on the following subject matter areas: development of naval ships; ship design and construction; stability and buoyancy; damage control; ship propulsion and steering; theory of lubrication; principles of measurement; thermodynamics; machinery arrangement and plant layout; propulsion boilers; boiler fittings and control; auxiliary steam turbines and forced draft blowers; nuclear power plants; gas turbine engines; internal-combustion engines; piping, fittings, and valves; pumps; shipboard electrical systems; refrigeration and air conditioning; compressed air plants; other auxiliary machinery; and engineering administration.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 50

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### ***Principles of Naval Ordnance and Gunnery***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82970  
ASSIGNMENTS: 6 POINTS: 9

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12970  
NSN: 0502-LP-213-6700

Covers the fundamentals of explosive ordnance and ordnance equipment and how each is incorporated into a modern combat system. General and destruction units are provided to enable the officer to become acquainted with systems currently in use. Emphasizes the functional operation of each system described.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 20

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## GENERAL NONRESIDENT TRAINING

### ***Public Affairs Policy and Regulations***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13086  
ASSIGNMENTS: 9 POINTS: 20

ERRATA #1 DATED: 1992

This course covers the following subject matter: Public Affairs Objectives, Principles, Organization and Authority; Public Affairs Functional and Policy Review; Public Affairs Resource Management; the Privacy and Freedom of Information Acts; and Contingencies.

Special Information: The text for this course, *Department of the Navy Public Affairs Policy and Regulations*, SECNAVINST 5720.44A, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### ***Quartermaster 1 & C***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82122  
NSN: 0503-LP-215-2600  
ASSIGNMENTS: 5 POINTS: 11

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12122  
NSN: 0502-LP-215-1800

This training manual provides information to satisfy the occupational standards for the Quartermaster 1 & C ratings. It covers knowledge and techniques pertaining to compasses; voyage planning; assisting the navigator; ship operations; and weather.

Special Information: The Navigation Rules Flash Cards, NAVEDTRA 10925, are used in conjunction with this course.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***Quartermaster 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80158-1  
NSN: 0503-LP-217-2800  
ASSIGNMENTS: 6 POINTS: 12

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10158  
NSN: 0502-LP-050-7750

This training material provides information to satisfy the occupational standards for the Quartermaster Second Class rating. It covers knowledge and techniques pertaining to supply and maintenance, piloting, rules of the road, celestial navigation, maneuvering board, and radiotelephone communications.

Special Information: The Navigation Rules Flash Cards,

NAVEDTRA 10925, are used in conjunction with this course.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***Quartermaster 3***

TRAMAN/NRTC EDITION: 1985  
NAVEDTRA NUMBER: 10157  
NSN: 0502-LP-050-7725  
ASSIGNMENTS: 15 POINTS: 30

The rate training manual serves as a text for those striking for Quartermaster Third Class. It outlines phases of watch standing, log keeping, honors and ceremonies, basic piloting, time, navigational aids, and electronic and celestial navigation.

Special Information: The Navigation Rules Flash Cards, NAVEDTRA 10925, are used in conjunction with this course.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### ***Radioman 1 & C***

NRTC EDITION: 1987  
NAVEDTRA NUMBER: 80229-A  
NSN: 0503-LP-500-1292  
ASSIGNMENTS: 9 POINTS: 12

ERRATA #2 DATED: 1991  
NSN: 0503-LP-500-1294

TRAMAN EDITION: 1985  
NAVEDTRA NUMBER: 10229-H  
NSN: 0502-LP-051-1475

ERRATA #1 DATED: 1991  
NSN: 0502-LP-051-1476

This course provides information on the duties and responsibilities of the leading Radioman as they relate to administration, safety, and training; management and organization of a communications center; requirements and procedures involving security, emergency planning, and COMSEC material; maintenance planning, logistics, and quality assurance; testing and maintenance of shipboard antennas; and basic computer concepts.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### ***Radioman 3 & 2***

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 10228-H1  
NSN: 0502-LP-051-1425  
ASSIGNMENTS: 14 POINTS: 21

ERRATA #1 DATED: 1991  
NSN: 0502-LP-051-1426

## GENERAL NONRESIDENT TRAINING

Provides information pertinent to Navy communicators concerning basic electricity; transmitter, receiver, and antenna theory; quality assurance utilizing test equipment; theory and basic types of radio wave propagation; basic organization and functions of U.S. Naval communications; classes, types, and handling procedures for commercial message traffic; teletype and radiotelephone procedures; communications security; Naval message types and formats; and the procedures of fleet communications.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### **Radioman 3**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82800  
NSN: 0503-LP-215-0800  
ASSIGNMENTS: 12 POINTS: 18

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12800  
NSN: 0502-LP-214-9400

Provides information pertinent to Navy communications in the following subject areas: basic transmitter theory; basic receiver theory; basic antenna theory; wave propagation; communications organization and publications; security; message content and format; radiotelephone procedures; manual teletype and teleprinter procedures; automated systems; fleet communications; message center operations; and maintenance and safety.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### **Refrigeration Systems**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13004-A  
ASSIGNMENTS: 8 POINTS: 10

This course provides information on the theory of refrigeration systems and basic principles underlying the design, operation, and maintenance of refrigeration systems and associated equipment used aboard ship.

Special Information: The text for this course, *Naval Ships' Technical Manual (NSTM) Chapter 516, "Refrigeration System,"* S9086-RW-STM-010/CH-516 (0901-LP-516-0000, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Religious Program Specialist 1 & C**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80239  
NSN: 0503-LP-500-1390  
ASSIGNMENTS: 5 POINTS: 5

ERRATA #3 DATED: 1988  
NSN: 0503-LP-216-1600

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10239-A  
NSN: 0502-LP-051-1895

ERRATA #1 DATED: 1988  
NSN: 0502-LP-215-8300

This course is designed to discuss the management skills necessary to the management of the Command Religious Program. Information is provided regarding the history of the Chaplain Corps and the Religious Program Specialist rating; office management skills and the management of naval communications; financial management; personnel management; and the education and training of Command Religious Program personnel, volunteer CRP personnel, and lay readers.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### **Religious Program Specialist 3 & 2, Module I--Personnel Support**

TRAMAN/NRTC EDITION: 1982  
NAVEDTRA NUMBER: 287-01-45-82  
NSN: 0507-LP-287-0100  
ASSIGNMENTS: 8 POINTS: 12

ERRATA #1 DATED: 1991  
NSN: 0507-LP-287-0101

Covers basic information on the major religions of the world; worship support functions, chapel weddings and military funerals; information and referral assistance; publicity, material, and facility support within the Command Religious Program; audiovisual presentations; and shipboard library support.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Religious Program Specialist 3 & 2, Module II--Logistic Support and Financial Control**

TRAMAN/NRTC EDITION: 1981  
NAVEDTRA NUMBER: 287-02-45-81  
NSN: 0507-LP-287-0200  
ASSIGNMENTS: 4 POINTS: 5

ERRATA #1 DATED: 1988  
NSN: 0507-LP-215-9800

Covers procuring, providing, and inventorying the materials necessary for the support of the chapel program; the preparation of procurement and reimbursement documents and the maintenance of departmental budget records and operating targets (OPTARs).

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

## GENERAL NONRESIDENT TRAINING

### **Religious Program Specialist 3 & 2, Module III--Administration**

TRAMAN/NRTC EDITION: 1983  
NAVEDTRA NUMBER: 287-03-45-83  
NSN: 0507-LP-287-0300  
ASSIGNMENTS: 5 POINTS: 5

ERRATA #1 DATED: 1988  
NSN: 0507-LP-287-0301

Covers the maintenance of Command Religious Program files and records; publications and directives; grammar and writing skills; presentation of correspondence; and officer and enlisted service records.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Seabee Combat Handbook, Vol 1**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82003  
NSN: 0503-LP-476-7500  
ASSIGNMENTS: 9 POINTS: 18

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12003  
NSN: 0502-LP-476-7400

This course provides the basic information and techniques involved in defensive combat. It includes organization of the Seabees and the laws of war; special clothing and equipment; service rifle and pistol marksmanship; combat maneuvers, formations, patrols, and ambush; land navigation; evasion, survival, and escape; individual protective measures; entanglements; CBR defense; first aid and field sanitation; organic communications equipment; hand grenades, landmines and booby traps; and organic support weapons.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### **Seabee Combat Handbook**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80479-1  
NSN: 0503-LP-215-2300  
ASSIGNMENTS: 11 POINTS: 22

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10479-C3  
NSN: 0502-LP-217-9100

This course provides basic knowledge and techniques of defensive combat. It includes organization of the SEABEES; instructions for wearing and caring for special clothing and field equipment; operation, field-stripping, and firing of weapons; terrain appreciation, map and compass reading; combat maneuvers and formations; radio and telephone operating procedures; fundamentals of patrolling, ambush, cover, concealment, evasion, survival and escape; Rules of War; CBR defense; marksmanship; methods and means of communications; types of ammunition, land mines,

and boobytraps; and principles of troop movement, defensive tactics, and counter-insurgency.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 8

### **Seaman**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82016  
NSN: 0503-LP-221-7900  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12016  
NSN: 0502-LP-221-7200

A general discussion of watches, watchstanding duties, marlinespike seamanship, deck seamanship, use and care of deck equipment, boat seamanship, ammunition and gunnery.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 75

### **Ship's Serviceman 1 & C**

NRTC EDITION: 1986  
NAVEDTRA NUMBER: 80287  
NSN: 0503-LP-500-1870  
ASSIGNMENTS: 7 POINTS: 9

TRAMAN EDITION: 1986  
NAVEDTRA NUMBER: 10287-F  
NSN: 0502-LP-051-4340

ERRATA #1 DATED: 1991  
NSN: 0502-LP-051-4341

Provides descriptions of the duties and responsibilities of the senior Ship's Serviceman including the opportunities and challenges of the Ship's Serviceman rating and the leadership and management techniques the senior Ship's Serviceman will be expected to use. Includes information on the organization of ashore supply and fiscal activities; the supervision of procedures afloat for procurement of stock; receipt, stowage, and expenditure of stock; ship's store operations; and records and returns. Also provides a brief description of Navy commissary store operations and the Retail Operation Management (ROM) system.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Ship's Serviceman 2**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80177  
NSN: 0503-LP-217-4700  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10177  
NSN: 0502-LP-217-2900

## GENERAL NONRESIDENT TRAINING

Describes the general procedures for using the Retail Operation Management system, preparing and maintaining the ship's store files, collecting cash in ship's store afloat, receiving and accounting for ship's store stock, issuing material, inventorying merchandise and reconciling results, and laundry scheduling and quality assurance.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Ship's Serviceman 3**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80176  
NSN: 0503-LP-217-7700  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10176  
NSN: 0502-LP-217-6200

Describes the organization and functions of the Navy supply system and supply department afloat, security of supply department spaces, operation of the sales outlets, stowage of ships store stock, barber shop service, and the operation of the ship's laundry and dry-cleaning plant.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Shipboard Electronics Material Officer**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82969  
ASSIGNMENTS: 14 POINTS: 21

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12969  
NSN: 0502-LP-217-9400

Provides information for the electronics maintenance officer aboard ship. Provides information on organization and administration, training, safety and security, material responsibilities, communication theory and equipment, teletypewriter and facsimile equipment, radar theory and equipment, navigation theory and equipment, naval tactical data system, miscellaneous facilities, records, reports, publications, work beyond the capability of ship's force, supply, and electronic material identification.

SEE ORDERING INSTRUCTION #2  
PER ORDER QUANTITY RESTRICTION: 5

### **Shiphandling**

NRTC EDITION: 1982  
NAVEDTRA NUMBER: 10738-B1  
ASSIGNMENTS: 9 POINTS: 12

Presents the fundamentals of shiphandling as required in today's complex operations and offers sound techniques for emergency shiphandling as well as solutions of problems normally encountered. Discusses in detail such subjects as: forces affecting the ship, handling alongside, anchoring,

mooring, handling at sea, restricted waters, specific types of ships, arctic shiphandling, pilots and tugs, and propeller side forces.

Special Information: The text for this course, *Naval Shiphandling* by Capt. R. S. Crenshaw, USN (Ret.), is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Ships Store Afloat**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 13084  
ASSIGNMENTS: 12 POINTS: 26

In completing this course the student will demonstrate a knowledge of the material by correctly answering questions pertaining to the following subject areas: management, administration, organization, security, stock and inventory control, procurement, receipts, stowage, expenditures, inventory, and handling and submitting returns.

Special Information: The text for this course, *Ships Store Afloat*, NAVSUP 487, July 1989, Revision 3, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Signalman 1 & C**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82104  
NSN: 0503-LP-218-5400  
ASSIGNMENTS: 5 POINTS: 8

### **Signalman**

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12104  
NSN: 0502-LP-218-4700

This course contains information on visual communications in the form of flashing light, semaphore, and flaghoist signaling, and includes upkeep of equipment, U.S. and foreign flags, and Morse code. Also covered are honors and ceremonies, Rules of the Road, navigational duties, voice radio communications, amphibious duties, convoy communications, international signaling, ship and aircraft identification, and technical administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Signalman 3 & 2**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 72104  
NSN: 0503-LP-218-4800  
ASSIGNMENTS: 15 POINTS: 22

### **Signalman**

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12104  
NSN: 0502-LP-218-4700

## GENERAL NONRESIDENT TRAINING

This course serves as an introduction to visual communications in the form of flashing light, semaphore, flaghoist signaling, and international signaling and includes upkeep of equipment, Morse code, and U.S. and foreign flags. Also covered are honors and ceremonies, security, Rules of the Road, navigational duties, amphibious duties, convoy communications, aircraft and ship identification, voice radio communications, and technical administration.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### ***Sonar Technician G 1 & C***

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82484  
NSN: 0503-LP-220-5900  
ASSIGNMENTS: 4 POINTS: 6

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12484  
NSN: 0502-LP-220-5800

This course covers tactical use of the ocean environment, submarine weapon systems and capabilities, submarine sensors and capabilities, ASW operations, and torpedo evasion and countermeasure employment.

Special Information: WARNING! This course is classified SECRET/WNINTEL/NOFORN.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Sonar Technician G 3 & 2, Vol 1***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80148  
NSN: 0503-LP-212-7600  
ASSIGNMENTS: 7 POINTS: 8

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10148  
NSN: 0502-LP-212-7400

This course provides fundamental information concerning primary active sonar systems, primary passive sonar systems, primary ASW fire control systems, auxiliary equipment, and maintenance and training.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Sonar Technician G 3 & 2, Vol 2***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80149  
NSN: 0503-LP-213-5300  
ASSIGNMENTS: 7 POINTS: 11

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10149  
NSN: 0502-LP-213-5100

This course provides training on: physics of sound, surface ship ASW organization, classification with active sonar, basic Lofargram analysis, contact analysis, and target motion analysis and plotting.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Sonar Technician S 1 & C***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82488  
NSN: 0503-LP-218-5800  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12488  
NSN: 0502-LP-218-5700

This course provides information on data collection, tactical operation, tactical use of the ocean environment, towed array tactical employment, relative motion analysis, sonar ranging techniques, and range rate and frequency analysis.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Sonar Technician S 2, Vol 1***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80141  
NSN: 0503-LP-213-5100  
ASSIGNMENTS: 8 POINTS: 10

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10141  
NSN: 0502-LP-213-4900

This course provides fundamental information concerning the physics of sound, basic Lofargram analysis, classification and surface ship analysis, diesel and nuclear submarine analysis, submarine search plan development, sonar tracking, target motion analysis, and submarine silencing.

Special Information: WARNING! This course is classified SECRET.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### ***Sonar Technician S 2, Vol 2***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 80142  
NSN: 0503-LP-215-1100  
ASSIGNMENTS: 7 POINTS: 10

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 10142

# GENERAL NONRESIDENT TRAINING

NSN: 0502-LP-215-0900

This course provides fundamental information concerning primary passive sonar systems (BQQ and BQR), active sonar systems, sonar classification systems, auxiliary sonar equipment, submarine evasion devices and launching systems, and submarine ASW fire control.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

## ***Sound-Powered Telephone Talkers' Manual***

SP EDITION: 1979  
NAVEDTRA NUMBER: 14005-A  
NSN: 0502-LP-070-0250

Provides instructions for the use of the sound-powered telephone.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 50

## ***Standard First Aid Training Course***

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82081  
NSN: 0503-LP-215-9200  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12081  
NSN: 0502-LP-215-9100

A basic reference in the field of first aid.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 50

## ***Standard Organization and Regulations of the U.S. Navy***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10427-C  
ASSIGNMENTS: 7 POINTS: 12

ERRATA #2 DATED: 9311

Provides an overview of the content and use of STANDARD ORGANIZATION AND REGULATIONS OF THE U.S. NAVY as it pertains to administration, standard unit organization, the unit organization, watch organization, regulations, unit bills, safety, training, ship maintenance and modernization, and the unit directives system.

Special Information: The text for this course, *Standard Organization and Regulations of the U.S. Navy*, OPNAVINST 3120.32B, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

## ***Steelworker 1***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80654  
NSN: 0503-LP-218-3800  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #2 DATED: 1992  
NSN: 0503-LP-218-3802

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10654-E1  
NSN: 0502-LP-218-2300

Describes the duties and responsibilities of construction inspectors, shop planners, and maintenance scheduler. They direct and coordinate the efforts of individuals and crews in cutting, welding, placing, and erecting rigid frame and other pre-engineered buildings and structures. Their tasks concern the identification and nondestructive testing of metals; inspecting work areas, tools, and equipment; setting up shops and fabrication yards; preparing material and equipment for embarkation; controlling site deployment of material and equipment; maintaining records and reports on job progress and material estimates; conducting Personnel Readiness Capability Program interviews; and administering an accident prevention program.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

## ***Steelworker 3 & 2***

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 80653  
NSN: 0503-LP-500-5530  
ASSIGNMENTS: 11 POINTS: 22

TRAMAN EDITION: 1988  
NAVEDTRA NUMBER: 10653-G  
NSN: 0502-LP-053-2670

Steelworkers fabricate and erect or install pre-engineered structures. This course covers properties and uses of metals and alloys; principles and techniques of welding, basic heat treatment; cutting, brazing, and soldering; fundamentals of blueprint reading; layout and fabrication of sheet metal, structural steel, and pipe; bending, placing, and tying of reinforcing steel; structural steel terms and blueprints, handling and care of fiber line and wire rope; operation of hoisting devices; and procedures for erecting or assembling steel buildings, towers, antennas, tanks, and airfield matting.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

## ***Storage and Materials Handling***

NRTC EDITION: 1983  
NAVEDTRA NUMBER: 10436-A1  
ASSIGNMENTS: 7 POINTS: 10

The objective of this course is to enable the student to demonstrate the acquirement of the necessary knowledge,

## GENERAL NONRESIDENT TRAINING

techniques, and skills which, when combined with the necessary practical experience, will enable the student to effectively direct or accomplish work assignments pertaining to the receipt, storage, care, and issue of materials in accordance with Department of Defense policy.

Special Information: The text for this course, *Storage and Materials Handling*, DOD Directive 4145-19-R-1, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **Storekeeper 1 & C**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82652  
NSN: 0503-LP-215-3100  
ASSIGNMENTS: 9 POINTS: 14

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12652  
NSN: 0502-LP-215-2900

Provides training on these Storekeeper topics; administration; COSAL; funding and accounting; afloat reports; procurement; receipts and expenditures; storage afloat and ashore; inventory management; shipping; and automated supply procedures.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

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### **Storekeeper 3 & 2**

TRAMAN/NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10269-K1  
NSN: 0502-LP-212-7700  
ASSIGNMENTS: 17 POINTS: 24

ERRATA #1 DATED: 1991  
NSN: 0502-LP-212-7701

Covers the basic information regarding the Storekeeper rating such as organization and function of the Navy supply system; supply procedures afloat and ashore; classification and identification of material; COSAL; procurement; material receipt, custody, and stowage; inventory management; expenditures; accounting classifications; afloat accounting and reporting; automated supply; maintenance and material management systems; material handling equipment; and packing, marking, and shipping material.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

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### **Supply Afloat**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10980-F  
ASSIGNMENTS: 12 POINTS: 20

ERRATA #1 DATED: 1991

Provides regulations for the Navy supply system and the Afloat supply procedures for nonautomated ships and

activities pertaining to the organization and administration of the supply department; material identification; material procurement; material receipt, custody, and stowage; material expenditure and shipment; inventory management; and transportation.

Special Information: The text for this course, *Afloat Supply Procedures*, NAVSUP PUB485, Revision 1, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **Supply Ashore**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 13085  
ASSIGNMENTS: 9 POINTS: 12

ERRATA #2 DATED: 1992

In completing this course the student will demonstrate a knowledge of the subject matter by correctly answering questions pertaining to the following subject areas: basic supply principles, requisitioning and local procurement, material receipt, stock management at field supply points, material expenditure, supply system management, and storage and materials handling.

Special Information: The text for this course, *Supply Ashore*, NAVSUP P-1, Volume II, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

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### **Surface Ship Operations**

SP EDITION: 1978  
NAVEDTRA NUMBER: 10776-A  
NSN: 0502-LP-053-8810

Provides fundamental information on the principles of shiphandling, underway replenishment, major aspects of communications, weather, formations, combat information center operations, and antisubmarine and antiair warfare operations.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 20

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### **Task Based Curriculum Development Manual, Vol I, Developer's Guide**

SP EDITION: 1993  
NAVEDTRA NUMBER: 130  
NSN: 0502-LP-477-4200

Provides step-by-step guidance for developing effective training materials using a task based method. The chapters in this volume correspond with sample figures and diagrams presented in Volume II of this manual.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

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## GENERAL NONRESIDENT TRAINING

### **Task Based Curriculum Development Manual, Vol II, Sample Products**

SP EDITION: 1993  
NAVEDTRA NUMBER: 130  
NSN: 0502-LP-477-4300

Provides sample produces corresponding to the phases of task based curriculum development presented in Volume I of this manual. Volume I and II are designed to be used together.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### **Task Based Curriculum Development Manual, Vol III, Manager's Guide**

SP EDITION: 1993  
NAVEDTRA NUMBER: 130  
NSN: 0502-LP-477-4400

Presents management information important to the planning, analysis, design, development, implementation, and evaluation of curriculum developed under a task based method. Establishes the requirements for submission and review of various products developed under the task based method.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 5

### **Theoretical Damage Control**

NRTC EDITION: 1988  
NAVEDTRA NUMBER: 10937-B3  
ASSIGNMENTS: 5 POINTS: 10

ERRATA #1 DATED: 1989

Provides guidance to the damage control officer regarding advance plans for meeting various emergencies and the long-term measures that may be useful in keeping a ship afloat and returning it to a repair base.

Special Information: The text for this course, *Naval Ships Technical Manual, 1976, Chapter 079, Volume I, Damage Control-Stability and Buoyancy*, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Tools and Their Uses**

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 82085  
NSN: 0503-LP-219-5200  
ASSIGNMENTS: 5 POINTS: 8

ERRATA #1 DATED: 1993  
NSN: 0503-LP-219-5201

### **Use and Care Of Hand Tools and Measuring Tools**

TRAMAN EDITION: 1992  
NAVEDTRA NUMBER: 12085

NSN: 0502-LP-219-5100

This course provides information on the use and care of basic hand tools and measuring tools. It covers the types and uses of a large number of basic tools used in many jobs throughout the Navy. The safety requirements, general care, and repair procedures are discussed for each tool. This course is intended for use by all Navy personnel. The text used with this course furnishes information on how to choose the proper tool for each job, examples of how the tools should be used, and the safety precautions that must be followed. Students may keep the text for future reference. When they need information about a specific tool or operation, they can simply refer to the alphabetical index at the end of the manual and turn to the pages that apply.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 25

### **Torpedoman's Mate 1 & C**

TRAMAN/NRTC EDITION: 1984  
NAVEDTRA NUMBER: 10164-D  
NSN: 0502-LP-050-8230  
ASSIGNMENTS: 8 POINTS: 24

ERRATA #1 DATED: 1992  
NSN: 0502-LP-050-8231

The course describes the enlisted rating structure as it applies to the TM rating. Provides information on the procedures for advancement in rate, and lists sources of information relative to the TM rating. This course is designed to help you become more knowledgeable in the field of underwater ordnance. The text has nine chapters and covers weapons currently in use, test equipment, launching methods, administration procedures, security, safety, and maintenance.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Torpedoman's Mate Second Class**

NRTC EDITION: 1991  
NAVEDTRA NUMBER: 82435  
NSN: 0503-LP-215-9400  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1991  
NAVEDTRA NUMBER: 12435  
NSN: 0502-LP-215-9300

Provides coverage of the professional requirements for advancement to TM2. Coverage includes information on duties and responsibilities of the TM2; safety, handling, shipping and stowage; torpedo maintenance programs, mechanical and electrical maintenance; heavy weigh torpedo

## GENERAL NONRESIDENT TRAINING

maintenance; submarine simulator systems; and recovery operations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Torpedoman's Mate Third Class***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80168  
NSN: 0503-LP-219-4100  
ASSIGNMENTS: 8 POINTS: 17

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10168  
NSN: 0502-LP-219-2200

Provides coverage of the professional requirements for advancement to TM3. Coverage includes information on duties and responsibilities of the TM3; explosives; torpedo tools and equipment; surface-launched torpedoes; submarine-launched torpedoes; weapons handling, shipping and stowing; missile weapons systems, countermeasures and mines; torpedo tubes; small arms; and security.

Special Information: WARNING! This course is classified CONFIDENTIAL.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

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### ***Useful Information for Newly Commissioned Officers***

SP EDITION: 1992  
NAVEDTRA NUMBER: 12967  
NSN: 0502-LP-220-6100

A general guide written to aid new officers in their transition to Navy life. Useful to officers in a variety of commissioning programs. This reference booklet contains information on Navy career patterns, orders and travel, the first duty station, shipboard routines, protocol, legal and financial matters, official records, uniforms, courtesies, customs, and traditions of the Navy.

SEE ORDERING INSTRUCTION #3  
PER ORDER QUANTITY RESTRICTION: 150

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### ***Utilitiesman 1***

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80657-1  
NSN: 0503-LP-211-8100  
ASSIGNMENTS: 10 POINTS: 20

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10657-G1  
NSN: 0502-LP-221-9400

Contains information pertaining to administration, leadership, blueprint reading and technical drawings; planning, embarkation, and project turnover; plumbing project planning; fire protection systems; water treatment and purification; sewage treatment and disposal; compressed

air systems; boilers; duct and ventilation systems; air conditioning and refrigeration; and environmental pollution control.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Utilitiesman 2***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80662  
NSN: 0503-LP-212-7300  
ASSIGNMENTS: 11 POINTS: 18

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10662  
NSN: 0502-LP-212-7200

This course covers information in the Utilitiesman rating, such as administrative duties and safety responsibilities; plans, specifications, and color coding; plumbing; pumps and air compressors; water treatment; maintenance of water treatment equipment; steam distribution systems; boilers; warm-air heating systems; hot-water heating systems; galley equipment; laundry equipment; refrigeration; and air conditioning.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Utilitiesman 3***

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 82532  
NSN: 0503-LP-214-1200  
ASSIGNMENTS: 12 POINTS: 18

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 12532  
NSN: 0502-LP-214-1100

This course covers plans and specifications; rough-in plumbing; plumbing; plumbing repairs; prime movers, pumps, and air compressors; field water treatment and processes; advanced base field support facilities; boilers; hot-water and warm-air heating systems; refrigeration and air conditioning.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

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### ***Watch Officer***

NRTC EDITION: 1992  
NAVEDTRA NUMBER: 13073  
ASSIGNMENTS: 5 POINTS: 8

Describes typical duties of the officer of the deck, both under way and in port. Includes honors and ceremonies,

## GENERAL NONRESIDENT TRAINING

flags and pennants, standard maneuvering commands, and safety.

Special Information: The text for this course, *Watch Officer's Guide*, 13th edition, is supplied by NETPMSA.

SEE ORDERING INSTRUCTION #2

### **Weapons Technician 1 & C**

NRTC EDITION: 1989  
NAVEDTRA NUMBER: 80126  
NSN: 0503-LP-215-2200  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1989  
NAVEDTRA NUMBER: 10126-E  
NSN: 0502-LP-214-9800

Covers the responsibilities of a WT1 & WTC; duty assignments available; commonly used ordnance publications; organization of the various government agencies; relationship between the Department of Defense and the Navy; security regulations, instructions and directives applicable to the nuclear weapons program; management of security programs and the personnel reliability program; administrative functions of the WT rate, including the 3-M System; initiation and maintenance of training programs; requirements for nuclear weapons technical inspections; functions and responsibilities of couriers; use of the COSAL; safety instructions and directives and their interpretation; accident/incident reporting procedures; and radiac instruments and docimeters.

Special Information: WARNING! This course is classified CONFIDENTIAL RESTRICTED DATA.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 10

### **Weapons Technician 3 & 2**

TRAMAN/NRTC EDITION: 1985  
NAVEDTRA NUMBER: 10125-E1  
NSN: 0502-LP-050-6145  
ASSIGNMENTS: 14 POINTS: 24

This course covers the responsibilities of a WT 3 & 2; duty assignments available; commonly used ordnance publications; organization of the various government agencies; relationship between the Department of Energy, Department of Defense, and the Navy; security regulations, instructions and directives applicable to the nuclear weapons program; 3-M systems; requirements for nuclear weapons technical inspections; use of the COSAL; preparation and movement of nuclear weapons; safety instructions and directives and their interpretation; general skills safety; bomb dummy units and type weapons and their uses; maintenance and modernization of nuclear weapons in the stockpile, in accordance with the three maintenance levels; fleet ballistic missiles and their warheads; maintenance and upkeep of nuclear weapons magazines and spaces; storage of nuclear weapons aboard ship and ashore; accident/incident procedures; radiac instruments and dosimeters; radiation and health physics; nuclear weapons

effects; air-delivered nuclear weapons; ground-delivered nuclear weapons; and the permissive action link systems and locking devices in the nuclear weapons program.

Special Information: WARNING! This course is classified SECRET RESTRICTED DATA.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 5

### **Yeoman 1 & C**

NRTC EDITION: 1993  
NAVEDTRA NUMBER: 82614  
NSN: 0503-LP-218-8900  
ASSIGNMENTS: 5 POINTS: 8

TRAMAN EDITION: 1993  
NAVEDTRA NUMBER: 12614  
NSN: 0502-LP-218-8800

This course covers material on the following subjects: the Navy Yeoman, education advancement, career opportunities, assignments, retention, administrative procedures, forms, reports, control records disposal, personnel support, manpower authorization, travel, security, legal, and separations.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 15

### **Yeoman 2**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80299  
NSN: 0503-LP-214-8400  
ASSIGNMENTS: 2 POINTS: 4

ERRATA #3 DATED: 1992  
NSN: 0503-LP-214-8403

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10299  
NSN: 0502-LP-214-6800

Contains information in the following subject areas: Yeoman knowledge, skills, and responsibilities; files records, and reports; records disposal and destruction; reports control; OCR document control; separations; temporary additional duty orders; security; decorations and awards; and courts-martial.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 20

### **Yeoman 3**

NRTC EDITION: 1990  
NAVEDTRA NUMBER: 80298  
NSN: 0503-LP-215-2400  
ASSIGNMENTS: 6 POINTS: 12

ERRATA #3 DATED: 1993  
NSN: 0503-LP-215-2403

## GENERAL NONRESIDENT TRAINING

TRAMAN EDITION: 1990  
NAVEDTRA NUMBER: 10298  
NSN: 0502-LP-215-0600

Contains information pertaining to the following subject areas: skills, knowledge, and personal characteristics required of a Yeoman; administrative office skills; supplies; filing procedures, equipment, identification codes; various official publications; methods for preparing and issuing directives, leave, and correspondence; message formats; the Navy's security program; Navy occupations; terms used in officer orders; and service records and disciplinary reports.

SEE ORDERING INSTRUCTION #1  
PER ORDER QUANTITY RESTRICTION: 30

## **PART 2**

### **CRYPTOLOGIC TECHNICIAN**

### **NONRESIDENT TRAINING PRODUCTS**

#### **INTRODUCTION**

Naval Security Group (NAVSECGRU) Nonresident Training Products are developed by the Commanding Officer, Naval Education and Training Program Management Support Activity (NETPMSA), NAVSECGRU Division (hereafter referred to as Code 35 NETPMSA), Pensacola, FL in accordance with requirements stated by the Commander, Naval Security Group Command. These materials include:

1. Special Naval Security Group Training Courses (NSGTCs) and Naval Security Group Training Publications (NSGTPs). NSGTCs and NSGTPs are stocked and administered ONLY by Code 35 at NETPMSA. A listing of NSGTCs AND NSGTPs start on page 2-5. NSGTCs and NSGTPs are ordered from:

Commanding Officer  
NETPMSA Code 035  
6490 Saufley Field Road  
Pensacola Florida 32509-5238

2. General training manuals (TRAMANs) and nonresident training courses (NRTC's). See Part 1 of this catalog for a listing of these TRAMANs and NRTC's.

#### **LOCAL NAVSECGRU NONRESIDENT TRAINING LIBRARIES**

To minimize the delays which may result when course materials are forwarded by the Defense Courier Service (DCS), or by Registered Mail, and to maximize service to the enrollee, NAVSECGRU Nonresident Training Libraries are established at NAVSECGRU elements throughout the world.

Where maintenance of a library is within the administrative capacity of an element, and that element wishes to establish a library, official correspondence to that effect should be forwarded to:

Commanding Officer  
NETPMSA Code 035  
6490 Saufley Field Road  
Pensacola Florida 32509-5238

(GENSER Message Address: NETPMSA  
PENSACOLA FL//CODE 35//).

DSN: 922-1688  
COMM: 904-452-1688  
STU-III DSN: 922-1686

Requests should indicate specific courses and quantity required. Upon receipt of the request, NAVSECGRU nonresident training materials will be provided including NSGTCs/NSGTPs, answer keys, conversion tables, conventional answer sheets, and pertinent guidance materials.

#### **SECURITY CLEARANCES AND NEED-TO-KNOW**

Commanding Officers are responsible for ensuring recipients of classified materials have the proper security clearance and the need-to-know.

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## ADMINISTRATIVE INFORMATION

<p>WHO IS ELIGIBLE TO ENROLL IN SPECIAL NAVSECGRU TRAINING COURSES</p>	<ol style="list-style-type: none"> <li>1. Enrollment is limited to personnel who: <ol style="list-style-type: none"> <li>a. currently hold the requisite security clearance</li> <li>b. are assigned to an activity having adequate facilities for the proper storage and protection of the materials</li> <li>c. have completed any prerequisite course(s)</li> <li>d. normally are in one of the following categories: <ul style="list-style-type: none"> <li>• Active duty personnel of any service assigned duty with the Naval Security Group.</li> <li>• Inactive duty personnel of any service assigned duty with the Naval Reserve Security Group and residing in the United States.</li> <li>• Marine Corps personnel assigned duty with a component of the Naval Security Group, a Marine Support Battalion, Radio Battalion, or a Special Security Communications team.</li> <li>• Civilian personnel employed by activities providing functional support to the Naval Security Group mission.</li> </ul> </li> </ol> </li> <li>2. Exceptions may be made on a case-by-case basis.</li> </ol>
<p>HOW TO ENROLL</p>	<ol style="list-style-type: none"> <li>1. <u>Enlisted Personnel.</u> <ol style="list-style-type: none"> <li>a. Enlisted personnel at elements which maintain a NAVSECGRU Nonresident Training Library should enroll at, and have assignments graded by, their local library.</li> <li>b. Enlisted personnel at elements which DO NOT maintain a NAVSECGRU Nonresident Training Library should enroll by letter (via the chain of command) with Code 35 at NETPMSA. (See mailing address on page 2-1.)</li> </ol> </li> <li>2. <u>Officers and Civilians.</u> Officers and civilians should enroll by letter (via the chain of command) with Code 35 NETPMSA. (See mailing address on page 2-1.) Course materials may be obtained from, and returned to, local NAVSECGRU Nonresident Training Libraries. However, enrollment MUST be through Code 35 NETPMSA.</li> <li>3. Enrollment requests to Code 35 NETPMSA should indicate the specific material required, student's need-to-know, stowage capabilities, and clearance certification (when appropriate).</li> </ol>
<p>WHAT ANSWER SHEETS TO USE</p>	<p>Use conventional answer sheets for NSGTCs.</p>

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## ADMINISTRATIVE INFORMATION (Continued)

HOW ASSIGNMENTS ARE GRADED	<ol style="list-style-type: none"> <li>Return completed assignments to the issuing authority (NAVSECGRU library or Code 35 NETPMSA) for grading.               <ol style="list-style-type: none"> <li>NAVSECGRU libraries will grade assignments and make a page 4 service record entry locally.</li> <li>Code 35 NETPMSA will grade assignments and issue a completion letter. Completed assignments should be returned to Code 35 NETPMSA as soon as they are completed. <b>DO NOT HOLD COMPLETED ASSIGNMENTS.</b></li> </ol> </li> <li>Return course materials to the issuing authority upon course completion.</li> </ol>
GRADES	<ol style="list-style-type: none"> <li>A passing score is 3.2 or above.</li> <li>Students receiving a failing score on an assignment must resubmit a new answer sheet marked <b>RESUBMIT</b>.</li> <li>3.2 is the maximum grade for a resubmitted assignment.</li> <li>Scores on resubmitted assignments will be averaged into the overall score.</li> <li>To qualify for a completion letter, students must achieve an overall course grade of at least 3.2.</li> </ol>
WHO ISSUES COMPLETION LETTERS	<ol style="list-style-type: none"> <li>Completion letters are issued to all personnel who complete a course administered by Code 35 NETPMSA.</li> <li>Completion letters become a permanent part of an officer's service record, and serve as the basis for service record entries for enlisted personnel.</li> </ol>
HOW TO DISENROLL	<ol style="list-style-type: none"> <li>Advisories of disenrollment must be sent to the issuing authority and contain reason for disenrollment.</li> <li>Students must return all course materials to the issuing authority upon disenrollment.</li> </ol>
STUDENT TRANSFERS	<ol style="list-style-type: none"> <li>Each activity should ensure that local personnel check-out procedures provide for the return of all NAVSECGRU nonresident course materials to the issuing authority.</li> <li>Transferring students, enrolled at Code 35 NETPMSA, should inform Code 35 if he or she wishes to be completely disenrolled or wishes enrollment records to be transferred to the new command.</li> </ol>

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## ADMINISTRATIVE INFORMATION (Continued)

USNR RETIREMENT POINTS	<ol style="list-style-type: none"> <li>1. Each course lists the recommended points for USNR retirement.</li> <li>2. For detailed information about retirement points, refer to the effective edition of BUPERSINST 1820.3.</li> </ol>
HOW TO PROVIDE STUDENT FEEDBACK	<ol style="list-style-type: none"> <li>1. Comments and recommendations from students is highly valued. Informal notes or memorandums are encouraged.</li> <li>2. Classified comments should be forwarded, via the student's command mail room, to Code 35 at the address listed on page 2-1.</li> </ol>
HOW TO GET ASSISTANCE	<ol style="list-style-type: none"> <li>1. Send administrative or technical queries to Code 35 at the address on page 2-1.</li> <li>2. Assistance via telephone may be obtained from Code 35 by calling: <div style="text-align: right; margin-top: 5px;"> DSN: 922-1688  STU III DSN: 922-1686 </div> </li> </ol>

## PERFORMANCE TEST INFORMATION

HOW TO GET PERFORMANCE TEST MATERIALS	<ol style="list-style-type: none"> <li>1. Administer performance tests in accordance with <i>Volume 1, Part A, Appendix D of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards, NAVPERS 18068F.</i></li> <li>2. Materials for CTA and CTO performance tests are available from Code 35 at the address listed on page 2-1.</li> </ol>
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## SOURCES FOR CT ADVANCEMENT STUDY MATERIALS

TYPE PUBLICATION	SOURCE
NAVEDTRA (TRAMAN OR NRTC)	NAVEDTRA 12061
USSID, SEDSCAF, EPL, COI, DOI	DIRNSA/CHCSS
OPNAVINST, SECNAVINST, NWP, NTP, NAVSEA, NAVELEX, NAVSO, NAVMAT, DCAC, ACP	NORMAL SUPPLY CHANNELS
NAVPERS 18068F VOLUME 1, PART B (CT OCCSTDS)	NORMAL SUPPLY CHANNELS
CMS	DCMS
NSGTP/NSGTC	CODE 35 NETPMSA



# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## COURSE DESCRIPTIONS

The following NSGTCs and NSGTPs are currently stocked at the Naval Education and Training Program Management Support Activity, NAVSECGRU Division (Code 35), Pensacola, Florida.

### **Module 1--Naval Cryptology in National Security**

NSGTC NUMBER: 684-01-00-91 EDITION: 1991  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-01-00-91 EDITION: 1991

Provides Naval Security Group personnel with a general orientation of the cryptologic community with a particular emphasis on the mission, function, and organization of the National Security Agency/Central Security Service and the Naval Security Group.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).  
TIME LIMIT: 3 months.

### **Module 2--Introduction to U.S. Navy HFDF Bullseye Operations**

NSGTC NUMBER: 684-02-44-88 EDITION: 1988  
ASSIGNMENTS: 1 POINTS: 3

NSGTP NUMBER: 683-02-44-88 EDITION: 1988

Provides an overview of the organization of the Navy's HFDF system and the responsibilities of the various elements within the system; discusses the mission of the BULLSEYE system; discusses pertinent operational procedures; and lists the equipments currently in use.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).  
TIME LIMIT: 1 month.

### **Module 3--HFDF Supervisor**

NSGTC NUMBER: 684-03-55-88 EDITION: 1988  
ASSIGNMENTS: 7 POINTS: 12

Note: The text for this course is NSGINST S3270.1.

Covers the operational mission and doctrine for the U.S. HFDF network; the responsibilities, management authority, policies and operational procedures of net control; and the processing and reporting procedures, communication systems, and dissemination of information as performed by local HFDF net stations.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).  
TIME LIMIT: 7 months.

### **Module 4--Cryptologic Operators Manual for ELINT Operations**

NSGTC NUMBER: 684-04-00-94 EDITION: 1994  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-04-00-94 EDITION: 1994

Provides the student with information concerning national and naval ELINT responsibilities; radar types and functions; radar system characteristics; ELINT collection and reporting; and threat emitters.

Special Instructions: **WARNING!** This course is classified SECRET.  
TIME LIMIT: 2 months.

### **Module 5--Cryptologic Operators Manual for Non-Morse Operations**

NSGTC NUMBER: 684-05-44-89 EDITION: 1989  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-05-44-89 EDITION: 1989

Provides information concerning the characteristics of radio wave communications and satellite communications; methods of modulation and multiplexing; HF collection systems; and associated reports.

Special Instructions: **Special Handling Required.**  
WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).  
TIME LIMIT: 2 months.

### **Module 6--Analysis and Reporting: Introduction**

NSGTC NUMBER: 684-06-44-90 EDITION: 1990  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-06-44-90 EDITION: 1990

This module, the first in the Analysis and Reporting series, discusses Navy cryptology; traffic analysis; radio-wave and radar theory; signal propagation and

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

antennas; radio operations and net formatting; callsigns; and characteristics of messages and message routing.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 3 months.

## **Module 7--Cryptographic Operator's Manual**

NSGTC NUMBER: 684-07-44-92 REVISED 1992  
ASSIGNMENTS: 3 POINTS: 6

NSGTP NUMBER: 683-07-44-92 EDITION: 1992

Provides the student with information concerning the make-up of a secure communications system, basic handling requirements of Communications Security (COMSEC) Material associated with cryptosystems, step-by-step procedures for operation of the various cryptosystems used within the Naval Security Group and the Defense Special Security Communications Systems. Includes descriptions of a variety of on-line and off-line equipments used on shore, surface, and airborne platforms.

Special Instructions: WARNING! This course is classified CONFIDENTIAL. TIME LIMIT: 3 months.

## **Module 8--Collection Operator**

NSGTC NUMBER 684-08-44-90 EDITION: 1990  
ASSIGNMENTS: 3 POINTS: 5

Note: The text for this course is USSID 101

Provides information on operational instructions, compiling machinable records of collection, requirements for tagging, IATS procedures, file summary lines, special identification techniques, COPES and non-IATs procedures.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 3 months.

## **Module 9--Cryptologic Collection Equipments-Volume 1**

NSGTC NUMBER: 684-09-44-91 EDITION: 1991  
ASSIGNMENTS: 3 POINTS: 5

NSGTP NUMBER: 683-09-44-91 EDITION: 1991

This module discusses preventive maintenance responsibilities of the operator, equipment nomenclature, and primary equipments used by operations personnel in the NAVSECGRU. Topics include discussions of transmission lines, multicoupling devices, patch panels, and

antennas as well as general characteristics and functions of numerous receivers, demodulators, digitizers, and demultiplexers.

Special Instructions: WARNING! This course is classified CONFIDENTIAL. TIME LIMIT: 3 months.

## **Module 10--Cryptologic Collection Equipments-Volume 2**

NSGTC NUMBER: 684-10-44-91 EDITION: 1991  
ASSIGNMENTS 3 POINTS: 5

NSGTP NUMBER: 683-10-44-91 EDITION: 1991

This module discusses specific printers and line printers and their characteristics; principles of magnetic tape recording, automatic tape degaussers, and some of the more commonly used recorders; signal analysis and special purpose equipments used throughout the Naval Security Group; and a brief introduction to computer operations and basic operating procedures of certain computers.

Special Instructions: WARNING! This course is classified CONFIDENTIAL. TIME LIMIT: 3 months.

## **Module 11--SCI Security and Emergency Destruction**

NSGTC NUMBER: 684-11-00-88 EDITION: 1988  
ASSIGNMENTS: 4 POINTS: 7

NSGTP NUMBER: 683-11-00-88 EDITION: 1988

Provides information from many sources on the common requirements associated with security and emergency destruction of classified material encountered within the Naval Security Group. The publication contains information on access and dissemination; Security Education Program; security; security markings; transmission, receipting and accounting for classified material; security violations and compromises; and emergency destruction.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 4 months.

## **Module 12--Collection Management Authority**

NSGTC NUMBER: 684-12-55-89 EDITION: 1989  
ASSIGNMENTS: 3 POINTS: 5

NSGTP NUMBER: 683-12-55-89 EDITION: 1989

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

Defines collection management authority and discusses the responsibilities related to CMA; introduces some collection systems; describes manning and equipment standards and the use of technology; discusses tasking methods; discusses reporting vehicles and plans; discusses support in terms of personnel, reference documents, statistics, and evaluation systems.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 3 months.

## **Module 13--Analysis and Reporting: Net Reconstruction**

NSGTC NUMBER: 684-13-44-90 EDITION: 1990  
ASSIGNMENTS: 3 POINTS: 6

NSGTP NUMBER: 683-13-44-90 EDITION: 1990

This module, the second in the Analysis and Reporting series, discusses radio network reconstruction, routing and address systems, chatter analysis, message format analysis, serial number analysis, message externals analysis, and textual features analysis.

Special Instructions: WARNING! This course is classified CONFIDENTIAL. TIME LIMIT: 3 months.

## **Module 14--Analysis and Reporting: Analysis Tools**

NSGTC NUMBER: 684-14-44-90 EDITION: 1990  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-14-44-90 EDITION: 1990

This module, the third in the Analysis and Reporting series, discusses applications of traffic analysis, analytic considerations, the terrestrial sphere, and the analyst's tools.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 2 months.

## **Module 15--Analysis and Reporting: SIGINT Reporting**

NSGTC NUMBER: 684-15-44-90 EDITION: 1990  
ASSIGNMENTS: 1 POINTS: 2

NSGTP NUMBER: 683-15-44-90 EDITION: 1990

This module, part of the Analysis and Reporting series, discusses and gives examples of specific SIGINT

reports and formats.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 2 months.

## **Module 16--Radio Wave Modulation & Signal Multiplexing**

NSGTC NUMBER: 684-16-44-91 EDITION: 1991  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-16-44-91 EDITION: 1991

Familiarizes the student with the basic concepts of sine-wave characteristics, types of modulation, and keying and signal multiplexing.

SPECIAL INFORMATION: This course is UNCLASSIFIED.

## **Module 17--ELINT Collection Procedures**

NSGTC NUMBER: 684-17-44-92 EDITION: 1992  
ASSIGNMENTS: 1 POINTS: 1

Note: The text for this course is USSID 140.

This course provides information on the procedures involved in collecting electronic intelligence.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 1 month.

## **Module 18--ELINT Processing, Analysis, and Reporting Procedures**

NSGTC NUMBER: 684-18-55-92 EDITION: 1992  
ASSIGNMENTS: 1 POINTS: 1

Note: The text for this course is USSID 240.

This course provides information on ELINT processing, analysis, and reporting procedures.

Special Instructions: Special Handling Required. WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI). TIME LIMIT: 1 month.

# CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

## **Module 19--The Message**

NSGTC NUMBER: 684-19-44-92 EDITION: 1992  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-19-44-92 EDITION: 1992

Provides information of interest to the CTO branch on basic communications primarily in relation to drafting and formatting both GENSER and SCI messages intended for transmission via the DSSCS/AUTODIN. Also, contains message format instructions for transmitting messages via various unique communication systems operated by CTO branch personnel.

Special Instructions: Special Handling Required.

WARNING! This course is classified CONFIDENTIAL.  
TIME LIMIT: 3 months.

## **Module 20--Technical Control**

NSGTC NUMBER: 684-20-00-94 EDITION: 1994  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-20-00-94 EDITION: 1994

Provides information on the scope and responsibilities of the technical controller; the mission, policy, and various organizations of naval communications; basic telecommunications theory; individual technical control subsystems, power requirements, and safety; basic principles and common configurations of communications equipments, antennas, and terminal equipments; types and theory of radio wave propagation; satellite communications; basic test equipments; system diagnosis and quality assurance; and technical control administration including reports and required logs.

NOTE: This course replaces CTTS Module 4--Technical Control, NAVEDTRA A95-04-44-88 & 095-04-44-88, and CTTS Module 5--Satellite Communications, NAVEDTRA A95-05-44-89 & 095-05-44-89.

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

TIME LIMIT: 3 months.

## **Module 21--Automated Communications**

NSGTC NUMBER: 684-21-00-93 EDITION: 1993  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-21-00-93 EDITION: 1993

This publication provides the CTO with a basic understanding of automated data process and describes current automated communications systems and networks.

NOTE: This course replaces CTTS Module 3--Automated Communications, NAVEDTRA A95-03-44-91 & 095-03-44-91

Special Instructions: WARNING! This course is classified CONFIDENTIAL.

TIME LIMIT: 2 months.

## **Module 22--Fleet Operations--Orientation**

NSGTC NUMBER: 684-22-00-92 EDITION: 1992  
ASSIGNMENTS: 4 POINTS: 6

NSGTP NUMBER: 683-22-00-92 EDITION: 1992

This course introduces the student to many aspects of U.S. fleet operations. It includes general information on the Navy and our national strategy and the mission and characteristics of U.S. naval ships and aircraft.

Special Instructions: WARNING! This course is classified SECRET.

TIME LIMIT: 2 months.

## **Module 23--Fleet Operations--Electronic Warfare**

NSGTC NUMBER: 684-23-00-93 EDITION: 1993  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-23-00-93 EDITION: 1993

This course introduces the student to the cryptologic aspects of electronic warfare. It includes general information on electronic warfare theory and application to ship, aircraft, and submarines.

Special Instructions: WARNING! This course is classified SECRET.

TIME LIMIT: 3 months.

## **Module 24--Fleet Operations--Tactical Cryptologic Management**

NSGTC NUMBER: 684-24-00-92 EDITION: 1992  
ASSIGNMENTS: 2 POINTS: 4

NSGTP NUMBER: 683-24-00-92 EDITION: 1992

This course introduces the student to the management of tactical cryptologic assets. It includes information regarding tactical communications, the naval tactical data system tactics, shore-based support, publications, and operational directives.

Special Instructions: Special Handling Required.

WARNING! This course is classified SECRET and contains Sensitive Compartmented Information (SCI).  
TIME LIMIT: 3 months.

## CRYPTOLOGIC TECHNICIAN NONRESIDENT TRAINING PRODUCTS

### ***Module 25--Introduction to Cryptologic Technician (Administrative)***

NSGTC NUMBER: 684-25-55-93 EDITION: 1993  
ASSIGNMENTS: 3 POINTS: 7

NSGTP NUMBER: 683-25-55-93 EDITION: 1993

Contains information on duties and responsibilities of the CTA. Describes cryptology and intelligence, the CTA rating, typical CTA working environments, CTA skills, and personal qualities. Reviews English grammar and tells how to write more organized, natural, compact, and active Navy correspondence.

TIME LIMIT: 3 months

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### ***Module 26--Administrative Office Procedures***

NSGTC NUMBER: 684-26-55-94 EDITION: 1994  
ASSIGNMENTS: 4 POINTS: 7

NSGTP NUMBER: 683-26-55-94 EDITION: 1994

Contains information on files and records; publications and directives; official Navy correspondence; Naval messages; physical security and loss prevention; enlisted performance evaluations; and reports management and correspondence control.

TIME LIMIT: 4 months

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### ***Module 31--Supervision and Training***

NSGTC NUMBER: 684-31-66-94 EDITION: 1994  
ASSIGNMENTS: 2 POINTS: 3

NSGTP NUMBER: 683-31-66-94 EDITION: 1994

This course provides information to CTAs concerning office supervision; enlisted and officer occupational classification systems; training; budget; manpower requirements and authorizations; and officer fitness reports.

TIME LIMIT: 3 months

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# **PART 3** **NAVAL SCHOOL OF HEALTH SCIENCES** **NONRESIDENT TRAINING COURSES**

## **GENERAL INFORMATION**

The nonresident training courses listed below are developed by the Naval School of Health Sciences and administered by the Naval Education and Training Program Management Support Activity (NETPMSA).

All questions or comments regarding course content, continuing education credits, or revision status should be addressed to:

Commanding Officer  
Naval School of Health Sciences  
Code 23  
Bethesda, MD 20814-5033

DSN: 295-4823  
COMMERCIAL: 301-295-4823

All requests for enrollment should be made using an Enrollment Application/Change Request (NAVEDTRA Form 1510/1). Send requests to:

Commanding Officer  
NETPMSA Code 074  
6490 Saufley Field Road  
Pensacola Florida 32559-5000

DSN: 922-1859  
COMMERCIAL: 904-452-1859

Note: Retirement point credit is listed for each NRTC but is only applicable to Naval Reserve personnel NOT currently on active duty.

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## **Aviation Medicine Practice**

NRTC REVISED: 1985  
NAVEDTRA NUMBER: 13145  
ASSIGNMENTS: 9 POINTS: 18

The course addresses the physiology of flight, aviation psychology, and special considerations in aviation medicine concerning medications, personnel management, alcohol abuse, fatigue, aeromedical evacuation, emergency escape, and problems related to aircraft accidents. Special emphasis is placed on methods of selecting well-adjusted personnel who are physically equipped to withstand the severe demand of flight training.

Special Information: This course is written for commissioned officers. The text, *U.S. Navy Flight Surgeon's Manual*, NAMI and Biotechnology, Inc., GPO 1980, is provided with the courses.

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## **Blood Component Therapy**

NRTC REVISED: 1992  
NAVEDTRA NUMBER: 13121-D  
ASSIGNMENTS: 2 POINTS: 4

Course is designed to provide the clinicians and other Medical Department personnel with key information on blood and component products available from the blood bank. It includes the fractionation of fresh blood, concentration of the formed cellular elements, and the coagulation factors in each product. Indications for the use and the calculation of the quantity needed for the various medical disorders requiring hemotherapy are presented.

Special Information: The text, *Blood Transfusion Therapy, A Physician's Handbook*, 1989, is provided with the courses.

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## **Combat Casualty Care for Nurses**

NRTC REVISED: 1993  
NAVEDTRA NUMBER: 13131  
ASSIGNMENTS: 5 POINTS: 8

Designed to familiarize nurses with the NATO agreed upon treatment protocols for war wounded. Included are echelons of medical care, mass casualty management, physiological responses to injury, and general management of injuries resulting from conventional and nonconventional warfare.

Special Information: The text, *Emergency War Surgery, Second United States Revision Emergency War Surgery NATO Handbook 1988*, is provided with the course.

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# NAVAL SCHOOL OF HEALTH SCIENCES

## NONRESIDENT TRAINING COURSES

### ***Clinical Aspects of Cold Weather***

NRTC REVISED: 1991

NAVEDTRA NUMBER: 13147-A

ASSIGNMENTS: 2      POINTS: 4

Course explores the epidemiology of cold injuries and other common conditions occurring during cold environment deployments. Emphasis is placed on host and environmental factors, subjecting humans to cold injuries. The signs, symptoms, treatment and prevention of specific freezing and nonfreezing injuries are addressed.

Special Information: The text, *Clinical Aspects of Cold Weather Operations*, HSETC 1982 (Revised 1991), is provided with the course.

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### ***Decedent Affairs***

NRTC REVISED: 1992

NAVEDTRA NUMBER: 13154

ASSIGNMENTS: 2      POINTS: 4

ERRATA #1      DATED: 1993

Course provides a concise coverage of the duties and responsibilities of personnel concerned with care-of-the-dead procedures. Highlights the search, recovery, identification, preservation, and disposition of the deceased for whom the Navy is responsible.

Special Information: Nonmedical personnel must have a written endorsement from their command verifying their responsibility for decedent affairs. The text, *Decedent Affairs Manual*, BUMEDINST 5360.1D, is provided with the course.

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### ***Food Service Sanitation***

NRTC REVISED: 1992

NAVEDTRA NUMBER: 13100

ASSIGNMENTS: 3      POINTS: 12

This course addresses the regulations and procedures for the procurement, storage, preparation, serving, and disposition of food. Discusses the processes and procedures for the inspection of food service facilities.

Special Information: The text, *Manual of Naval Preventive Medicine Ch. 1, Food Service Sanitation*, NAVMED P-5010-1 (Revised 1991), is provided with the course.

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### ***Heat Stress***

NRTC REVISED: 1986

NAVEDTRA NUMBER: 13128

ASSIGNMENTS: 1      POINTS: 3

Course provides information essential to a preventive program to control the adverse effects of high temperatures on Armed Forces personnel. Addresses the diagnosis and treatment of clinical syndromes resulting from overexposure to heat.

Special Information: The text, *Prevention, Treatment, and Control of Heat Injury*, 1980 (TB MED 507; NAVMED P-5052-5; AFP 160-1), GPO, is provided with the course.

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### ***Immunization Program***

STUDENT GUIDE      REVISED: 1990

ERRATA      DATED: 9105

NAVEDTRA NUMBER: 13152

TEXT      REVISED: 1990  
NAVEDTRA NUMBER: 13153

This course is designed for medical department personnel who are nonphysician health care providers. Course is based on NAVMEDCOMINST 6320.3, Immunizations and Chemoprophylaxis. It presents practical instruction on determining patient eligibility, screening patients, administering immunizations appropriately, and counseling patients. Specific immunizing agents and adverse reactions are also discussed. A brief overview of the immune system is given to enhance understanding of the immunization program. The course design is new. It requires the successful completion of an open book proctored final exam. It is a prerequisite for an HSETC developed On-the-Job Training Program (which is optional).

Special Information: Students are required to take and pass a proctored final exam after completing the course. To apply for an exam, fill out the form on page 112 of the student guide and mail the form to:

Commanding Officer  
Naval School of Health Sciences  
Code 23  
Bethesda, MD 20814-5033

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# NAVAL SCHOOL OF HEALTH SCIENCES

## NONRESIDENT TRAINING COURSES

### ***Physical Examinations and Health Care Standard First Aid Training Course Treatment Records***

NRTC REVISED: 1993  
NAVEDTRA NUMBER: 13148-A  
ASSIGNMENTS: 6 POINTS: 9

This course defines procedures for the physical examinations for induction, enlistment and appointment to the commissioned rank of the naval service. Explains the physical standards for special examinations such as those for aviation, submarine, and diving service personnel, previously hospitalized patients, and personnel discharged or released from activity duty. Includes policies and procedures guiding the purpose, custody protocols, and events requiring the opening and closing of the military health treatment record.

Special Information: The text, Chapters 15 & 16 of the *Medical Department Manual, P-117*, is provided with the course.

(SEE PART 1 OF THIS CATALOG)

### ***Treatment of Chemical Agent Casualties***

NRTC REVISED: 1991  
NAVEDTRA NUMBER: 13116-B  
ASSIGNMENTS: 3 POINTS: 6

Presents important techniques for battlefield treatment of chemical agent casualties and methods of protecting personnel from chemical agents. Explains the physiological and psychological effects of each agent and the recommended treatment of each.

Special Information: The text, *Treatment of Chemical Agent Casualties and Conventional Military Chemical Injuries*, NAVMED P-5041, February 1990, is provided with the course.

### ***Principles of Epidemiology***

NRTC REVISED: 1990  
ERRATA DATED: 9105  
NAVEDTRA NUMBER: 13123-A  
ASSIGNMENTS: 6 POINTS: 18

Course is designed for medical department personnel. The Center for Disease Control (CDC) Course titled "Principles of Epidemiology" (3030-G). Explains the concepts, principles, and methods useful in the surveillance and investigation of communicable diseases. It is highly recommended that individuals contemplating enrollment have a basic knowledge of both microbiology and communicable disease control. The course is NOT a study of the epidemiology of specific diseases.

Special Information: The text, *Principles of Epidemiology, Self Study Course, 3030-G 1988*, is provided with the course.



## PART 4

# NAVAL DENTAL SCHOOL NONRESIDENT TRAINING COURSES

### GENERAL INFORMATION

The following nonresident training courses are administered by the Naval Dental School. The Naval Dental School enrolls the student, grades his or her assignments, and certifies satisfactory completion.

An application has been included following the description of courses. You may photocopy this form. Please complete the entire form and submit to:

**COMMANDING OFFICER (CODE 411A)  
NATIONAL DENTAL SCHOOL CENTER  
8901 WISCONSIN AVE  
BETHESDA, MD 20889-5602**

or call:

**DSN: 295-0205    COMM: (301) 295-0204**

**\*\*DO NOT SEND APPLICATION TO NETPMSA\*\***

Occasionally, shortages of course materials produce waiting lists. For this reason, applicants should indicate a second choice of course, if interested. Applicants may enroll in only one course at a time.

These courses are UNCLASSIFIED and are recommended for the graduate dental officer only. Applications of medical officer personnel whose specialties are included in Officer Designator Group IV will be considered on an individual basis. Courses are not available to dental students, dental technicians, or hospital corpsmen.

### COMPLETE DENTURES

NAVEDTRA 10763-B

6 ASSIGNMENTS - 12 POINTS

This course is the second major revision in a series of complete denture courses provided for dental officers who wish to review, supplement, and update their previous education in this field. Text: *Boucher's Prosthodontic Treatment for Edentulous Patients*, J. C. Hickey and G. A. Zarb, ed. 8, The C. V. Mosby Company, 1980.

### DENTAL MATERIALS

NAVEDTRA 13149

6 ASSIGNMENTS - 12 POINTS

This course provides the general dentist with the information needed to understand the physical and chemical properties of dental materials and their uses, manipulation, and behavior in the oral cavity. The course presents basic background information on cements, direct esthetic restorations, amalgam, impression material, noble and precious alloys, cast and wrought base metals, ceramics,

ceramic-metal systems, and polymers. Text: *Restorative Dental Materials*, edited by R.G. Craig, ed. 7, The C.V. Mosby Company, 1985.

### ENDODONTICS

NAVEDTRA 13151

7 ASSIGNMENTS - 16 POINTS

This revised course presents information on the latest and proven techniques in endodontics. The following topics are covered: the science of endodontics, including pulp structure and function, pathology, microbiology, and pulpal reaction to caries and dental procedures; the art of endodontics, including diagnostic procedures, endodontic emergencies, and case selection and treatment planning; information on preparation for treatment, endodontic armamentarium, sterilization, and access openings; instruments and materials, obturation of the root canal system, and pedodontic-endodontic treatment; information concerning traumatic injuries, and root resorption; endodontic-periodontal relations and surgical endodontics; and bleaching of vital and nonvital teeth, postendodontic restoration, and failures in therapy. Text: *Pathways of the Pulp*, S. Cohen and R. C. Burns, ed. 4, The C. V. Mosby Company, 1987.

### FIXED PARTIAL DENTURE PROSTHODONTICS

NAVPER 10410-B

6 ASSIGNMENTS - 12 POINTS

Course designed to provide a working background in fixed prosthodontic therapy for the newcomer as well as a review and refresher for the practitioner. It covers diagnosis and treatment planning, fundamentals of occlusion, tooth preparation, cast metal restorations, porcelain fused to metal restorations, and fixed bridges. Text: *Fundamentals of Fixed Prosthodontics*, N. T. Shillingburg, S. Hobo, and L.D. Whitsett, 2nd Ed., 1981.

### OCCCLUSION

(Under Revision)

# NAVAL DENTAL SCHOOL NONRESIDENT TRAINING COURSES

## **OPERATIVE DENTISTRY**

NAVEDTRA 13146

6 ASSIGNMENTS - 12 POINTS

This course provides general dentists with an opportunity to enhance their skills in all areas of operative dentistry, including prevention, interception, preservation, and restoration. The text emphasizes the practical aspects of clinical practice, based on the basic concepts of operative dentistry. Therefore, the concepts of clinical dental anatomy, histology, physiology, occlusion, and cariology are discussed before restorative treatment. Text: *The Art and Science of Operative Dentistry*, by C. M. Sturdevant, et.al., the C. V. Mosby Company, 1985.

## **ORAL DIAGNOSIS**

NAVEDTRA 13150

8 ASSIGNMENTS - 16 POINTS

The purpose of this course is to enhance the clinician's ability to distinguish among similar appearing lesions by presenting significant and unique characteristics of relatively common oral lesions. Text: *Differential Diagnosis of Oral Lesions*. N.K. Wood and P.W. Goaz, ed. 3, The C. V. Mosby Company, 1985. (Unit 1, 1-4, 8 Pts; Unit 2, 5-8, 8 Pts).

## **ORAL SURGERY**

NAVEDTRA 10729-B

10 ASSIGNMENTS - 22 POINTS

This course takes the place of two old courses; *General Oral Surgical Procedures and Exodontia*; NAVPERS 10729-A; and *Special Oral Surgical Procedures and Fractures*, NAVPERS 10516. Its goal is to provide a detailed coverage of principles and procedures in the main phase of oral and maxillofacial surgery. It is designed to be of use to practitioners, surgeons, and residents. Dwells specifically on fundamentals of judgment and technique. The course consists of 10 assignments and covers such subjects as general principles of surgery, exodontia, wounds of the soft tissues, fractures, pathological conditions of the oral structures and their treatment, acquired defects of the soft and hard tissues, and developmental deformities. Text: *Textbook of Oral and Maxillofacial Surgery*, G. O. Kruger, 5th Ed., 1979. (Unit 1, 1-5, 11 Pts.; Unit 2, 6-10, 11 Pts.)

## **PANORAMIC RADIOGRAPHY**

NAVEDTRA 13140

4 ASSIGNMENTS - 9 POINTS

Focus of this course is on the use of the panoramic x-ray machine and the interpretation of panoramic radiographs. It includes a discussion of the problems practitioners encounter when applying the technique. Text: *Principles and Practices of Panoramic Radiology*, O. E. Langland, R. P. Langlais, and Charles R. Morris, W. B. Saunders Company, 1982.

## **PERIODONTICS**

NAVEDTRA 13157

9 ASSIGNMENTS - 18 POINTS

The objective of this course is to help enrollees improve their ability to detect or foresee conditions conducive to periodontal diseases and to correct such conditions or prevent them from developing. The course consists of 9 assignments and covers such subjects as the structure of the periodontium; the etiology, epidemiology and pathogenetic mechanisms of periodontal diseases; the types of periodontal diseases; therapeutic judgment; periodontal therapy; and the treated case. Text: *Periodontics in the Tradition of Orban and Gottlieb*, ed. 6, Daniel A. Grant, Irving B. Stern, and Max Listgarten, The C. V. Mosby Company, St. Louis, 1988. (Unit 1, 1-6, 12 Pts.; Unit 2, 7-9, 6 Pts.)

## **PHARMACOTHERAPEUTICS IN DENTAL PRACTICE**

(Under Revision)

## **REMOVABLE PARTIAL DENTURES**

NAVEDTRA 13104

8 ASSIGNMENTS - 16 POINTS

This course provides the general dentist with a review of basic principles and time-tested, practical procedures for treating partially edentulous patients. The text covers partial denture construction from initial contact with the patient to postplacement care of oral structures. The eight assignments deal with components of removable partial dentures and their biomechanical characteristics, denture bases, surveying, principles of design of restorations, diagnosis, treatment planning, and treatment. Text: *McCracken's Removable Partial Prosthodontics*, D. Henderson, G. P. McGivney, and D. J. Casleberry, 7th Ed. 1985. (Unit 1: 1-6, 12 Pts.; Unit 2: 7 and 8, 4 Pts.)

# NAVAL DENTAL SCHOOL NONRESIDENT TRAINING COURSES

<b>INSTRUCTIONS TO APPLICANT</b> 1. Fill in boxes A through G below. 2. All boxes must be completed or the application will be returned. 3. Mail Application to : <b>Commanding Officer (Code 411A)</b> <b>National Naval Dental Center</b> <b>8901 Wisconsin Avenue</b> <b>Bethesda, Maryland 20889-5602</b> 4. If course materials have not been received within a reasonable time, please call (DSN)295-0205 or commercial (301)295-0205.		<b>PRIVACY ACT STATEMENT</b> Under the authority of Title 5 USC 301, information regarding your military or other DOD status is requested in order to evaluate individual applications for enrollment in the Naval Correspondence Course program. The information will also be used to process course completion letters and to construct and maintain an official and continuing manual and/or automated record of correspondence course participation. The cumulative course participation record will not be divulged without written authorization, to anyone other than those within DOD for official use in determining performance and effecting organizational and administrative management. The transmittal of pertinent information to persons/institutions of the individual selection may be effected by a signed statement by the individual concerned. Completion of this form is voluntary; however, failure to provide the required information will result in an inability to process this application.									
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FINAL											

Application For Enrollment in Correspondence Course —NDCBETH (411A)1550/1 (Rev 11/93)

## **PART 5**

# **SHIPBOARD TRAINING ENHANCEMENT PROGRAM**

Naval Education and Training Program Management Support Activity

1 October 1993

### **SHIPBOARD TRAINING ENHANCEMENT PROGRAM CATALOG**

#### **INTRODUCTION**

This revised Shipboard Training Enhancement Program Catalog is a listing of packages presently available for fleet use. All packages are designed to be transportable -- that is, according to CNETINST 1500.12B, Glossary of Navy and Education Training Terminology, "capable of and intended to be transported to the location of the target student population." They are also intended to serve a cross section of Navy personnel in all warfare specialties. Please share this catalog with others in your command.

#### **OTHER SOURCES OF TRAINING**

Other sources of specialized on board training are listed below:

Type of materials: Submarine On Board Training (OBT)

Catalog: Submarine OBT Products Catalog  
Address:

COMSUBGRU 2  
Naval Submarine Base, New London  
Code N-24  
Groton, CT 06349-5100

Phone: DSN 241-3737/2934.

Type of materials: Individual Personnel Qualification Standards (PQS) packages

Catalog: PQS Catalog (NAVEDTRA 43100-5 series) This information is also available on a CD-ROM which is available through supply channels. The stock number is 0501-LP-478-1700.

Address:

PQS Development Group  
6490 Saufley Field Road  
Code 34  
Pensacola, FL 32509-5239

Phone: DSN 922-1736

Type of materials: Electronic Warfare Training Materials (ASTAP and NEWTAP OBT packages) Naval Electronic Warfare Training Aids Program (NEWTAP) is the software and courseware distribution house for the EWOB, and supports both the Pacific and Atlantic fleets. Products can be obtained by letter or message request.

Multi-ship training packages are available from NEWTAP. These are combat systems training scenarios built for five to twenty ships. The exercises provide a coordinated EW environment for Tactical Action Officers, combat systems teams, and EW team training. The scenarios provide signal simulation for the AN/SLQ-32 electronic warfare suite and for the Lightweight Electronic Warfare Trainer (LEWT). Packages are provided to requesting commands and units.

Single ship training package is also available. This package provides selections from the multi-ship scenarios tailored for individual ship or unit training. NEWTAP has a limited number of LEWT Model 1 devices for loan. The LEWT can be used to stimulate the front end of most EW receivers, either directly or with common test equipment found on board. Additionally, the LEWT can stand alone, demonstrating signal parameters in a tabular format while providing an audio presentation.

Catalogs: NAVEDTRA S105K and NAVEDTRA 105K, Acoustic Sensor Training Aids Catalogs and NAVEDTRA 104, Electronic Warfare Training Aids Catalog

Address:

Commanding Officer  
ATTN: NAVSTAD (N34)  
Fleet Anti-Submarine Warfare Training Center,  
Pacific  
33000 Nixie Way  
San Diego, CA 92147-5104

Phone: DSN 524-6295, Commercial (619)  
524-6295.

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

Type of materials: Surface Training Series products  
Catalog: Surface Training Series (STS) Users  
Catalog, STS 000-0000A  
Address:

Commander  
Naval Surface Reserve Force  
Code 36  
New Orleans, LA 70146.

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Type of materials: On Board Maintenance Training.  
The Naval Ship Systems Engineering Station (NAVSSSES) has a variety of training courses available for use as on board maintenance training (OMT). NAVSSSES subject matter experts will deliver the courses aboard ship or at a site selected by the requesting command. There is a fee for these courses which range from \$741 to \$5,588, depending on its length and the cost of travel. Course length varies from four hours to ten days.

Catalog: Catalog of NAVSSSES On Board Maintenance Training Courses  
Address:

NAVSSSES  
Code 132  
Philadelphia, PA 19112

Phone: DSN 443-1565

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Type of materials: Audiovisual materials (East Coast) Catalog: OPNAV-P-09B1-01-88, Catalog of Navy and Marine Corps Visual Information Productions  
Address:

NETPMSA VI Unit Norfolk  
9770 Decatur Ave, Ste 250  
ATTN: D. Kerley  
Norfolk, VA 23511-3292

Phone: DSN 564-4011/1468

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Type of materials: Audiovisual materials (West Coast)  
Catalog: Audiovisual Catalog  
Address:

NETPMSA VI Unit San Diego  
921 W Broadway  
ATTN: Keith Valles  
San Diego, CA 92132-5105

Phone: DSN 522-1360.

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### ADDITIONS AND CHANGES:

Additions which have broad non-tactical application throughout the Navy are solicited. If you have developed training software for your own use and are willing to share it, we would like to receive a copy for review. A read.me file in ASCII format with a brief description of how to install the system and what it does would be useful. If it has widespread applications, we would then like to add it to the Navy-wide STEP inventory. We would also like to know of any "bugs" or errors you find in our packages. While they have been carefully screened to eliminate as many errors as possible, a few occasionally get past us. If you should discover one, please notify us so that we may correct it prior to the next revision. The format in Appendix A is provided for additions and changes. Send to:

Commanding Officer  
Naval Education and Training Program  
Management Support Activity (NETPMSA)  
6490 Sautley Field Road  
Code 0471  
Pensacola, Florida 32509-5239

Phone: DSN 922-1288, COMMERCIAL (904) 452-1288

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# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## HOW TO ORDER STEP PRODUCTS:

### Computer-Aided Instruction (CAI):

As new computer-aided instruction packages are developed, they are tested in the Waterfront Trainers, and then sent to the Fleet Commanders in Chief and Type Commanders for final review and approval for distribution. After they have been released, one copy of each package will be mailed directly to each command identified by the Type Commanders. When you receive your Navy-owned package, unless otherwise noted, you may make as many copies as necessary to meet your local requirements. If your command was not included in the initial distribution, additional copies will be stocked at the two Fleet Film Libraries. Requests must be submitted in writing and should identify the required CAI package and your mailing address.

### Audiovisual Productions:

Audiovisual products except category 1 video tapes are available on a temporary loan basis from Fleet Film Libraries. Temporary loan requests must be submitted in writing citing the identification number, title, format (i.e., 3/4" U-matic, 1/2" Beta, or 1/2" VHS video tape), two-week loan period, point of contact, telephone number and Command UIC. Order CAI packages and audiovisual products according to your geographic location as follows:

East of Mississippi	West of Mississippi
Commanding Officer NETPMSA VI Unit Norfolk 9770 Decatur Ave, Ste 250 ATTN: D. Kerley Norfolk, VA 23511-3292  Phone: DSN 564-4011/1468	Commanding Officer NETPMSA VI Unit San Diego 921 W Broadway ATTN: Keith Valles San Diego, CA 92132-5105  Phone: DSN 522-1360

# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## INDEX OF SHIPBOARD TRAINING ENHANCEMENT PROGRAM PACKAGES

1 OCTOBER 1993

SORTED BY TITLE

TITLE	MEDIA			CLASSIFICATION	
				SUBJECT AREA	FEATURES
A-4 OBA	V	U	D		
ADVANCED DAMAGE CONTROL, EMERGENCY PARTIES	C	U	D	ST	
AIR CONDITIONING, REFRIGERATION AND GALLEY EQUIP	C	U	M	ST	
AMERICA HURTS: THE DRUG EPIDEMIC	V	U	G		
BARRON'S COMPUTER STUDY PROGRAM FOR THE SAT	C	U	G	ST	
BASIC MATH AND ELECTRICITY	C	U	G	ST	
BEATING THE ODDS - THE USS SAMUEL B ROBERTS	V	U	D		
CELESTIAL NAVIGATION	C	U	O	ST	
CLOSER LOOK	V	U	D		
CODE OF CONDUCT	V	U	G		
CONDUIT FIRST YEAR ALGEBRA PARTS I AND II	C	U	G	ST	
CONDUIT I ALGEBRA DRILL AND PRACTICE	C	U	G	ST	
CONDUIT II ALGEBRA DRILL AND PRACTICE	C	U	G	ST	
CONDUIT III ALGEBRA DRILL AND PRACTICE	C	U	G	ST	
CRACK: CHEAP AND DANGEROUS	V	U	G		
CRUEL SPIRITS: ALCOHOL AND VIOLENCE	V	U	G		
DAMAGE CONTROL - BATTLE LANTERN PMS	V	U	D		
DAMAGE CONTROL - HAZARD AWARENESS KITS	S	U	D		
DANGER ZONE - YOUR HANDS	V	U	G		
DANGER ZONE - YOUR HEAD	V	U	G		
DC PMS - CO2, PKP AND HALON 1211 BOTTLES	V	U	D		
DC PMS - FIRESTATIONS AND RELATED EQUIPMENT	V	U	D		
DC PMS - MAINTENANCE OF WATERTIGHT BOUNDARIES	V	U	D		
DC PMS - PIPING AND VENT SYSTEM MARKING	V	U	D		
DWI DECISION	V	U	G		
ESD THE INVISIBLE THREAT	V	U	O		
EYE SAFETY	V	U	G		
FIRE ON THE FLIGHT DECK	V	U	D		
FIRST AID FOR BURNS	V	U	G		
FIRST AID FOR BURNS AND FRACTURES	V	U	G		
FIRST AID FOR WOUNDS	V	U	G		
FLAGS	C	U	O	ST	
GRAB FOR YOUR LIFE (EE3D)	V	U	G		
HALON 1301 FIRE EXTINGUISHING SYSTEM	S	U	D		
HARD TARGET	V	U	O		
HAZARD COMMUNICATION	C	U	G	ST	
HEARING SAFETY	V	U	G		
HEAT AND COLD EMERGENCIES	V	U	G		
IF ONLY	V	U	G		
LUBRICATION TECHNIQUES	V	U	M		
MANEUVERING BOARD	C	U	O	ST	
MORSE CODE	C	U	O	ST	
MOTOR CONTROL FUNDAMENTALS	V	U	M		
NAVIGATION SIMULATOR	C	U	O	ST	
NAVY ELECTRICITY AND ELECTRONICS TRAINING SERIES	C	U	G	ST	
NAVY SKILL ENHANCEMENT TRAINING (NAVSET) MATH	C	U	G	ST	
P-250 MOD 2 PORTABLE PUMP OPERATION	V	U	D		
PERSONAL TOUCH: JASON ROBARDS ON ALCOHOLISM	V	U	G		
PRIVATE TUTOR - BASIC NUMBERS CONCEPTS	C	U	G	ST	

# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## INDEX OF SHIPBOARD TRAINING ENHANCEMENT PROGRAM PACKAGES (Continued)

TITLE	MEDIA	CLASSIFICATION	SUBJECT AREA	FEATURES
PRIVATE TUTOR - MATH COMPUTATION SKILLS	C	U	G	ST
PRIVATE TUTOR - PREPARING FOR GEOMETRY AND ALGEBRA	C	U	G	ST
PRIVATE TUTOR - SOLVING MATH WORD PROBLEMS	C	U	G	ST
PRIVATE TUTOR - VERSION 2.0 PROGRAM DISK	C	U	G	ST
QUALITY OF LIFE: BACK INJURY PREVENTION	V	U	G	
QUALITY OF LIFE: DRUG AND ALCOHOL ABUSE PREVENTION	V	U	G	
QUALITY OF LIFE: HEALTH AND PHYSICAL READINESS	V	U	G	
QUALITY OF LIFE: STRESS MANAGEMENT/HIGH BLOOD PRES	V	U	G	
QUALITY OF LIFE: TOBACCO USE EDUCATION AND PREVENT	V	U	G	
QUALITY OF LIFE: WEIGHT AND FAT CONTROL/NUTRITION	V	U	G	
RULE MASTER	C	U	O	ST
RULES OF THE NAUTICAL ROAD	C	U	O	ST
SAFETY PROGRAMS AFLOAT	C	U	O	ST
SECOND NATIONAL DRIVING TEST: ONE FOR THE ROAD	V	U	G	
SERIOUS PURSUIT	C	U	O	ST
SHIPBOARD DAMAGE CONTROL SHORING	V	U	D	
SHIPBOARD FIRE FIGHTING - PART 1 - AGENTS	V	U	D	
SHIPBOARD FIRE FIGHTING - PART 2 - BASIC PROCEDURES	V	U	D	
SHIPBOARD FIRE FIGHTING - PART 3 - SPEC HAZ FIRES	V	U	D	
SHIP 3M WATCHSTATION 301 MAINTENANCE PERSON	C	U	M	ST
SHIP 3M OPERATIONS/ADMINISTRATION	C	U	M	ST
SOLID STATE MOTOR CONTROLS	V	U	M	
STABILITY FOR NAVAL VESSELS	C	U	O	ST
STREET SMARTS: HOW TO AVOID BEING A VICTIM	V	U	G	
TAO THREAT RECOGNITION TRAINING	C	S	O	ST
TARGET BY CHOICE	V	U	G	
TECHNICAL SURVEILLANCE COUNTERMEASURES	V	S	G	
TELEPHONE SECURITY - YOUR PIECE OF THE PUZZLE	V	U	G	
VALVES	V	U	M	

### DESCRIPTOR KEY

<b>MEDIA</b> C: COMPUTER AIDED INSTRUCTION (CAI) I: INTERACTIVE VIDEO DISK (IVD) S: SOUND ON SLIDES V: VIDEO TAPE O: OTHER	<b>SECURITY</b> U: UNCLASSIFIED C: CONFIDENTIAL S: SECRET
<b>SUBJECT AREA</b> A: ADMINISTRATION D: DAMAGE CONTROL G: GENERAL MILITARY TRAINING (GMT) M: MAINTENANCE O: OPERATIONS	<b>FEATURES</b> S: SELF-PACED T: TEST INCLUDED



# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## PACKAGE DESCRIPTIONS

### THE A-4 OBA

**IDENTIFICATION NUMBER:** 802006 DN

**SUGGESTED AUDIENCE:** All shipboard firefighting/engine room personnel.

**LENGTH/TIME:** 20 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic or 1/2-inch beta)

**DESCRIPTION:** In fighting a shipboard fire, your best friend can be the oxygen breathing apparatus OBA-4. Recent experiences in shipboard fire fighting have shown that some personnel are not familiar with or have forgotten how to wear the OBA safely and effectively. The OBA-4 is a relatively simple apparatus, but you have to know how to use it and wear it correctly. When worn properly it will isolate your own breathing system from a contaminated atmosphere and provide you with a self contained supply of oxygen. This program demonstrates the proper procedures for donning, using and wearing it correctly.

### ADVANCED DAMAGE CONTROL, EMERGENCY PARTIES

**IDENTIFICATION NUMBER:** CAI0040R0993

**SUGGESTED AUDIENCE:** All officers and enlisted personnel needing damage control training

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package covers PQS Watchstation 332 (Scene Leader), Watchstation 333 (Repair Party Leader), and Watchstation 334 (Damage Control Training Team Member).

### AIR CONDITIONING, REFRIGERATION AND GALLEY EQUIPMENT

**IDENTIFICATION NUMBER:** CAI0037R0591

**SUGGESTED AUDIENCE:** All officers and enlisted personnel desiring to learn about air conditioning, refrigeration and galley equipment.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package covers the operation and preventive maintenance of shipboard air conditioning, refrigeration, and galley equipment.

### AMERICA HURTS: THE DRUG EPIDEMIC

**IDENTIFICATION NUMBER:** 504370 DN

**SUGGESTED AUDIENCE:** General Military Training, NADSAP training DAPA & CAAC personnel

**LENGTH/TIME:** 34 minutes

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

**DESCRIPTION:** An eye-opening look at the long term implications of a society, our own, where youth is enticed by a morally corrupt model of easy financial success: the multibillion dollar drug industry. Frightening personal stories tell what no statistics can, stories of addiction and attempted rehabilitations, of families torn apart by violence and apathy, of teenage pushers making \$200 a day while hard working parents eke out a minimal subsistence, of babies kidnapped, gutted and stuffed to ship across international borders.

### BARRON'S COMPUTER STUDY PROGRAM FOR THE SAT

**IDENTIFICATION NUMBER:** CAI0026R0390

**SUGGESTED AUDIENCE:** All officers and enlisted personnel wanting to prepare for the Scholastic Aptitude Test (SAT)

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This package is a personal SAT tutor. It will work closely with the student, adapting to meet individual needs. It will point out problem areas, and help the student to work on them, and it will point out strengths as well. After working with the package, students should notice a marked improvement in performance.

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### BASIC MATH AND ELECTRICITY

**IDENTIFICATION NUMBER:** CAI0028R0590

**SUGGESTED AUDIENCE:** All officers and enlisted personnel wanting to review basic math and electricity

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package is a combination of nine basic modules: Electrical Circuits; Resistor Coding; Formulas; Series Circuits; Series-Parallel Circuits; Triangles; Trigonometry; Conversions; and Metrics.

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### BEATING THE ODDS - THE USS SAMUEL B ROBERTS FIGHT FOR LIFE

**IDENTIFICATION NUMBER:** 804635 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)

**DESCRIPTION:** This presentation is a real life account of the fire aboard USS S. B. Roberts and the fight for survival.

---

### CELESTIAL NAVIGATION

**IDENTIFICATION NUMBER:** CAI0006R0289

**SUGGESTED AUDIENCE:** All officers and enlisted personnel engaged in navigation.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** One part of this package provides instruction in the coordinate system and the navigation triangle. A second part allows the user to apply and draw his/her own navigation triangle.

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### A CLOSER LOOK

**IDENTIFICATION NUMBER:** 803502 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 28 minutes

**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)

**DESCRIPTION:** Frequent and thorough zone inspections, followed by discrepancy correction, is an important tool for ensuring your ship is ready when called upon. This package and the companion booklet contain examples of common material deficiencies discovered by the Board of Inspection and Survey during Underway Material Inspections.

---

### CODE OF CONDUCT

**IDENTIFICATION NUMBER:** 504100 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 28 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)

**DESCRIPTION:** Presentation informs members of the requirements of the Code of Conduct.

---

### CONDUIT FIRST YEAR ALGEBRA PARTS I AND II

**IDENTIFICATION NUMBER:** CAI0018R0189

**SUGGESTED AUDIENCE:** Anyone desiring to learn or review first year algebra.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** Commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** This package presents a comprehensive course of study which covers all of the topics usually found in a traditional first-year algebra course. It is designed to be used by students learning or reviewing algebra in a classroom, computer laboratory, or at home. No special computer prerequisites are needed by students.

---

## CONDUIT I ALGEBRA DRILL AND PRACTICE

**IDENTIFICATION NUMBER:** CAI0019R1086

**SUGGESTED AUDIENCE:** Anyone desiring to review first year algebra.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, & color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** The package contains drills to provide supplementary teaching aids in the following subjects: signed numbers, numeric fractions, calculating percentages, simplifying algebraic expressions, algebraic fractions, slopes and equations of lines, distance word problems, rectangle word problems, and mixing solutions word problems.

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## CONDUIT II ALGEBRA DRILL AND PRACTICE

**IDENTIFICATION NUMBER:** CAI0020R0187

**SUGGESTED AUDIENCE:** Anyone desiring to review first year algebra.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** The package contains eight drills to provide supplementary teaching aids in the following subjects: absolute values, integral exponents, factoring bi- and trinomials, linear equations, linear systems in two Variables, linear systems in three Variables, roots of quadratic equations, and linear inequalities.

---

## CONDUIT III ALGEBRA DRILL AND PRACTICE

**IDENTIFICATION NUMBER:** CAI0021R1087

**SUGGESTED AUDIENCE:** Anyone desiring to review first year algebra.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** The package contains nine drills to provide supplementary teaching aids in the following subjects: functional notation, fractional equations, radicals, rationalizing parts of fractions, work word problems, boat and river word problems, coins word problems, numbers word problems, and pipes word problems.

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## CRACK: CHEAP AND DANGEROUS

**IDENTIFICATION NUMBER:** 805361 DN

**SUGGESTED AUDIENCE:** General Military Training, NADSAP training, DAPA & CAAC personnel

**LENGTH/TIME:** 7 minutes

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

**DESCRIPTION:** This documentary presents the straight facts about this dangerous drug from those who know: former dealers, recovering addicts and drug enforcement agents. This video tells what crack is, why it's so popular, and how dangerous it is.

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## CRUEL SPIRITS: ALCOHOL & VIOLENCE

**IDENTIFICATION NUMBER:** 608981

**SUGGESTED AUDIENCE:** General military training, DAPA & CAAC personnel

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** Join host Collin Siedor as he examines the relationship between alcohol and violence as he travels from a state prison to an emergency room, from the site of a drowning to a house engulfed by flames. At each stop along the way, he discovers people either responsible for or involved in these incidents where drinking or drunk when tragedy struck. He investigates the compelling evidence linking alcohol to rape, child abuse, spouse battering and profusion of other violent crimes.

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### DAMAGE CONTROL - BATTLE LANTERN PMS (RELAY TYPE)

**IDENTIFICATION NUMBER:** 804173 DN  
**SUGGESTED AUDIENCE:** All rates  
**LENGTH/TIME:** 3 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)  
**DESCRIPTION:** This video explains how to conduct proper PMS of Relay Type Battle Lanterns and identify proper location of battle lanterns.

---

### DAMAGE CONTROL - HAZARD AWARENESS KITS (HAWKIT #1)

**IDENTIFICATION NUMBER:** 803056 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 22 minutes  
**HARDWARE FOR PRESENTATION:** 35 MM slide projector and 1/8 inch cassette tape player, or Telex Caramate 4000, or equivalent  
**DESCRIPTION:** Inspection discrepancies are often related to hazards that will lead to accidents. This program will discuss the ability to inspect for damage control hazards and correct them.

---

### DANGER ZONE - YOUR HANDS

**IDENTIFICATION NUMBER:** 801739 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 13 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)  
**DESCRIPTION:** This film demonstrates how unique a tool the hand is, where hand hazards exist and how to choose the right protective equipment.

---

### DANGER ZONE - YOUR HEAD

**IDENTIFICATION NUMBER:** 803186 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 16 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)  
**DESCRIPTION:** This program demonstrates why a head injury can be serious and the proper protection equipment available.

---

### DC PMS - CO2, PKP AND HALON 1211 BOTTLES

**IDENTIFICATION NUMBER:** 804325 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 7 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta, 1/2-inch VHS, or 3/4-inch U-matic)  
**DESCRIPTION:** Describes the maintenance procedures for CO2, PKP and Halon 1211 bottles.

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### DC PMS - FIRESTATIONS AND RELATED EQUIPMENT

**IDENTIFICATION NUMBER:** 804326 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 10 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta, 1/2-inch VHS, or 3/4-inch U-matic)  
**DESCRIPTION:** Describes the maintenance procedures for a shipboard firestation.

---

### DC PMS - MAINTENANCE OF WATERTIGHT BOUNDARIES

**IDENTIFICATION NUMBER:** 804324 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 12 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta, 1/2-inch VHS, or 3/4-inch U-matic)  
**DESCRIPTION:** States areas of concern in maintaining watertight boundaries.

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## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

### DC PMS - PIPING AND VENT SYSTEM MARKINGS

**IDENTIFICATION NUMBER:** 804327 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 12 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta, 1/2-inch VHS, or 3/4-inch U-matic)  
**DESCRIPTION:** Identifies various piping and ventilation systems and describes proper markings for piping and ventilation systems aboard ship.

---

### THE DWI DECISION

**IDENTIFICATION NUMBER:** 703111 DN  
**SUGGESTED AUDIENCE:** General Military Training, DAPA & CAAC personnel  
**LENGTH/TIME:** 19 minutes  
**HARDWARE FOR PRESENTATION:** 1/2 inch beta  
**DESCRIPTION:** Driving while intoxicated is presented in a three phase production which provides background information on alcohol and decisions concerning alcohol use.

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### ESD THE INVISIBLE THREAT

**IDENTIFICATION NUMBER:** 803784 DN  
**SUGGESTED AUDIENCE:** Anyone who maintains or handles electronic components  
**LENGTH/TIME:** 10 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)  
**DESCRIPTION:** This program is an excellent source of refresher training on electrostatic discharge for anyone who maintains or handles electronic components.

---

### EYE SAFETY

**IDENTIFICATION NUMBER:** 604862 DF  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 20 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)  
**DESCRIPTION:** This program explains physical, chemical and radiation hazards to eyes and details the types of protection required for each.

---

### FIRE ON THE FLIGHT DECK

**IDENTIFICATION NUMBER:** 800588 DN  
**SUGGESTED AUDIENCE:** General Military Training -- all hands  
**LENGTH/TIME:** 26 minutes  
**HARDWARE FOR PRESENTATION:** 16 MM projector or video tape (3/4-inch U-matic or 1/2-inch beta)  
**DESCRIPTION:** This program examines carrier fires, explains the use of AFFF vice protein foam and the amount required to extinguish a fire. Also explains when to use salt water as a coolant.

---

### FIRST AID FOR BURNS

**IDENTIFICATION NUMBER:** 702179 DN  
**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen  
**LENGTH/TIME:** 11 minutes  
**HARDWARE FOR PRESENTATION:** 1/2 inch beta  
**DESCRIPTION:** Viewers learn how to treat burns caused by a barbecue, steam, chemicals, cinders, and how to treat small blistered burns.

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### FIRST AID FOR BURNS AND FRACTURES

**IDENTIFICATION NUMBER:** 805359 DN  
**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen  
**LENGTH/TIME:** 9 minutes  
**HARDWARE FOR PRESENTATION:** 1/2 inch beta  
**DESCRIPTION:** This video describes advanced first aid procedures. It guides first responders in assessing and treating thermal and chemical burns; skull, spine, rib, leg and arm fractures; and internal bleeding injuries.

---

### FIRST AID FOR WOUNDS

**IDENTIFICATION NUMBER:** 702177 DN  
**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen  
**LENGTH/TIME:** 9 minutes  
**HARDWARE FOR PRESENTATION:** 1/2 inch beta

# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** Reviews classification and types of wounds, and prevention of contamination and infection.

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## FLAGS

**IDENTIFICATION NUMBER:** CAI0003R1189

**SUGGESTED AUDIENCE:** All personnel desiring to review nautical flags and pennants.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This package has been licensed for by the United States Navy. It may be used or retained for personal, non-commercial use by any employee of the Navy or any individual participating in an official function of the Navy. Further distribution or use is prohibited.

**DESCRIPTION:** This program provides drill and practice in recognizing nautical flags and pennants. This program aids in learning to identify the individual nautical flags and pennants and to correctly read flag hoists. Flags can display or quiz you on individual flags or on flag hoists with up to twenty flags.

---

## GRAB FOR YOUR LIFE (EEBD)

**IDENTIFICATION NUMBER:** 801729 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 30 minutes

**HARDWARE FOR PRESENTATION:** 16 MM projector or video tape (3/4-inch U-matic, 1/2-inch VHS, and 1/2-inch beta)

**DESCRIPTION:** This presentation demonstrates how to safely operate the emergency breathing device (EEBD), when it is necessary to don the EEBD, and enhance the safety awareness of all personnel.

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## HALON 1301 FIRE EXTINGUISHING SYSTEM

**IDENTIFICATION NUMBER:** 801888 DN

**SUGGESTED AUDIENCE:** All rates and ranks.

**LENGTH/TIME:** 15 minutes

**HARDWARE FOR PRESENTATION:** 35 MM slide projector and 1/8-inch cassette tape player, or Telex Caramate 4000, or equivalent.

**DESCRIPTION:** This sound/slide presentation describes the overall features of the HALON 1301 fire extinguishing system as installed aboard ship. It explains what the system is, and how and when it is employed. Viewer is taken step-by-step through a fire fight in a machinery space.

---

## HARD TARGET

**IDENTIFICATION NUMBER:** 803445 DN

**SUGGESTED AUDIENCE:** All Naval and Marine Corps personnel and their dependents

**LENGTH/TIME:** 16 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic or 1/2-inch beta)

**DESCRIPTION:** This program is intended to make the sailor, marine and dependents deploying to high threat areas aware of what terrorism is and what terrorism does. It will be used to brief Navy and Marine Corps personnel prior to deploying overseas. Shows the viewer the present day problems associated with terrorists.

---

## HAZARD COMMUNICATION

**IDENTIFICATION NUMBER:** CAI0016R1188

**SUGGESTED AUDIENCE:** All officers and enlisted personnel who work with hazardous material.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** Chemicals are everywhere in our modern world. In these 14 computer-based lessons, you will learn about chemical hazards and the steps to avoid those hazards, and how to follow established safe operating procedures. Everyone should complete the lessons called "Understanding Material Safety Data Sheets" and "Understanding Hazardous Chemicals Labels." After that, you will probably need to complete only some of the lessons, depending on the chemicals used in your workplace.

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## HEARING SAFETY

**IDENTIFICATION NUMBER:** 604863 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 18 minutes

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)

**DESCRIPTION:** This program stresses the importance of hearing conservation in all noisy environments -- but especially in 85 db situations. The dangers of long term exposure to these common levels of industrial noise in terms of the effect on the hearing of the properties of pitch, intensity and duration and ways people often fool themselves into believing hearing protection is not really necessary is made clear. The program concludes with a survey of protective devices and their proper use.

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### HEAT AND COLD EMERGENCIES

**IDENTIFICATION NUMBER:** 800077 DN

**SUGGESTED AUDIENCE:** General Military Training -- First Aid, also refresher training for corpsmen

**LENGTH/TIME:** 13 minutes

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

**DESCRIPTION:** This video shows how to recognize frostbite and hypothermia and describes emergency care. It differentiates between heat exhaustion and heat stroke, explaining appropriate treatment for each.

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### IF ONLY

**IDENTIFICATION NUMBER:** 805358 DN

**SUGGESTED AUDIENCE:** General military training, DAPA & CAAC personnel

**LENGTH/TIME:** 23 minutes

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

**DESCRIPTION:** Will motivate viewers to "buckle up" by showing why the brain can be so easily injured in a crash, how safety belts minimize the risk of head injury, and the long term devastating effects of a head injury.

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### LUBRICATION TECHNIQUES

**IDENTIFICATION NUMBER:** 804809 DN

**SUGGESTED AUDIENCE:** Engineering and Deck Ratings

**LENGTH/TIME:** 24 minutes

**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)

**DESCRIPTION:** This video illustrates the proper ways to lubricate industrial equipment.

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### MANEUVERING BOARD REFRESHER

**IDENTIFICATION NUMBER:** CAI0001R1189

**SUGGESTED AUDIENCE:** Officer and enlisted personnel who need refresher training in maneuvering board skills.

**LENGTH/TIME:** Variable (20 hours average)

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package consists of four phases: (1) Information, (2) Application, (3) Remediation, and (4) Evaluation. Users are presented with appropriate subject matter, questioned on it through the use of practice exercises, remediated on those items incorrectly answered, and evaluated with a scenario-based test. It uses interactive graphics to provide training in the conceptual basis of relative motion problems. Users are required to work the problem on a maneuvering board and input answers into the computer. Immediate feedback is provided in the form of a correct solution. If desired, the user can either see a solution plotted or see a simultaneous plot along with the interaction described in the problem.

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### MORSE CODE

**IDENTIFICATION NUMBER:** CAI0029R0590

**SUGGESTED AUDIENCE:** All officers and enlisted desiring to improve proficiency in receiving and transmitting Morse Code.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This package contains shareware software. Restrictions apply.

**DESCRIPTION:** This program has enough features and flexibility to allow anyone wanting to learn the Morse code or improve speed will find a combination of mode and speed which will be perfect for his/her current proficiency level. It is a combination of three modules which include receiving and transmitting CW and receiving flashing lights.

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# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## MOTOR CONTROL FUNDAMENTALS

**IDENTIFICATION NUMBER:** 804810 DN  
**SUGGESTED AUDIENCE:** Electrical rates  
**LENGTH/TIME:** 87 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)  
**DESCRIPTION:** This 5-part series explains the principles of motor controls and to read and understand line diagrams.

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## NAVIGATION SIMULATOR (NAVSIM)

**IDENTIFICATION NUMBER:** CAI0005R0389  
**SUGGESTED AUDIENCE:** All officers and enlisted personnel engaged in navigation.  
**LENGTH/TIME:** Variable  
**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.  
**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.  
**DESCRIPTION:** This STEP package simulates real time navigation using: visual bearings, LORAN C, OMEGA, and SATNAV. Comes with canned scenario, but additional scenarios can be developed for any desired location.

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## NAVY ELECTRICITY AND ELECTRONICS TRAINING SERIES (NEETS)

**IDENTIFICATION NUMBER:** CAI0031R0190  
**SUGGESTED AUDIENCE:** Beginners in the fundamentals of electricity and electronics and experienced electronic maintenance personnel who may need a refresher course  
**LENGTH/TIME:** Variable  
**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.  
**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.  
**DESCRIPTION:** This package is organized into modules which consist of a series of lessons. Four introductory modules are available at this time: (1) Matter, Energy, and Direct Current, (2) Alternating Current and Transformers, (3) Circuit Protection, Control and Measurement, and (4) Electrical Conductors, Wiring Techniques, and Schematic Reading.

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## NAVY SKILL ENHANCEMENT TRAINING (NAVSET) MATH

**IDENTIFICATION NUMBER:** CAI0036R1192  
**SUGGESTED AUDIENCE:** Navy personnel who wish to improve math competence to successfully complete a first enlistment and/or prepare themselves to perform college level math work.  
**LENGTH/TIME:** Variable  
**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.  
**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.  
**DESCRIPTION:** This package contains a diagnostic test, 47 lessons and student management records. The scope of training runs along a continuum of math skills from adding whole numbers through introduction to algebra and basic math. It includes demonstrations and practice sessions.

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## P-250 MOD 2 PORTABLE PUMP OPERATION

**IDENTIFICATION NUMBER:** 804284 DN  
**SUGGESTED AUDIENCE:** All officers and enlisted personnel engaged in damage control, including damage control teams, firefighters and rescue teams.  
**LENGTH/TIME:** 20  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch VHS)  
**DESCRIPTION:** Describes how to start and secure the P-250 Mod-2 engine driven fire pump. Emphasizes the need to read the technical manual before starting. Demonstrates hook-up of intake, discharge and exhaust hoses; attachment of fuel can; priming and start procedure. Demonstrates stop procedure, draining and fresh water flushing of pump. Shows corresponding procedures for cold weather operation. Demonstrates what to do in case vacuum cannot be obtained and if engine run-on occurs. Emphasizes importance of flow meter and safe operating regions.

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## PERSONAL TOUCH: JASON ROBARDS ON ALCOHOLISM

**IDENTIFICATION NUMBER:** 805360 DN  
**SUGGESTED AUDIENCE:** General Military Training, DAPA & CAAK personnel  
**LENGTH/TIME:** 15 minutes



## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

**DESCRIPTION:** An enlightening program that takes a sobering look at alcoholism from the perspective of award-winning actor Jason Robards who recounts his own struggle to battle his drinking problem. Robards is seen in performance and conducting an audience discussion at a rehabilitation center where recovering alcoholics share their experience of "hitting bottom" and the hard road back to sobriety. This stirring film emphasizes that alcoholism can affect anyone, and by removing the myths and stigma surrounding this incurable disease, others may be encouraged to seek treatment.

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### PRIVATE TUTOR - BASIC NUMBER CONCEPTS

**IDENTIFICATION NUMBER:** CAI0022R0390

**SUGGESTED AUDIENCE:** Anyone interested in improving math computation skills.

**LENGTH/TIME:** Variable, self-paced.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This self paced Private Tutor 2.0 course explores number properties in various multiple-choice formats. Self-paced lessons, quizzes, and tests cover even, odd and prime numbers; factors and multiples; commutative, distributive and associate properties; and more. For 6th grade through adult. NOTE: The Private Tutor Version 2.0 program disk is required to run the lesson, Basic Number Concepts, in addition to other available lessons which include: Math Computation Skills, Solving Math Word Problems, and Preparing for Geometry and Algebra.

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### PRIVATE TUTOR - MATH COMPUTATION SKILLS

**IDENTIFICATION NUMBER:** CAI0023R0390

**SUGGESTED AUDIENCE:** Anyone interested in improving math computation skills.

**LENGTH/TIME:** Variable, self-paced.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This self paced Private Tutor 2.0 course reviews basic math operations - addition, subtraction, multiplication, division, and conversions. Five lessons on whole numbers, decimals, fractions, ratios and percentages help refresh basic math skills. For 6th grade through adult. NOTE: The Private Tutor Version 2.0 program disk is required to run the lesson, Math Computation Skills, in addition to other available lessons which include: Solving Math Word Problems, Basic Number Concepts, and Preparing for Geometry and Algebra.

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### PRIVATE TUTOR - PREPARING FOR GEOMETRY AND ALGEBRA

**IDENTIFICATION NUMBER:** CAI0024R0390

**SUGGESTED AUDIENCE:** Anyone interested in improving math computation skills.

**LENGTH/TIME:** Variable, self-paced.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This self paced Private Tutor 2.0 course reviews the rules and techniques algebra and geometry. Topics include: angles, perimeters, area, volume, integers, exponents, scientific notation, charts and graphs, number sequences, and much more. For 6th grade through adult. NOTE: The Private Tutor Version 2.0 program disk is required to run the lesson, Preparing for Geometry and Algebra, in addition to other available lessons which include: Math Computation Skills, Solving Math Word Problems, and Basic Number Concepts.

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## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

### PRIVATE TUTOR - SOLVING MATH WORD PROBLEMS

**IDENTIFICATION NUMBER:** CAI0025R0390  
**SUGGESTED AUDIENCE:** Anyone interested in improving skills in solving math word problems.

**LENGTH/TIME:** Variable, self-paced.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This self paced Private Tutor 2.0 course reviews the rules and techniques of solving word problems. Five individual lessons cover one- and two-step problems, how to identify correct operations, percentages, and more. For 6th grade through adult. **NOTE:** The Private Tutor Version 2.0 program disk is required to run the lesson, Solving Math Word Problems, in addition to other available lessons which include: Math Computation Skills, Basic Number Concepts, and Preparing for Geometry and Algebra.

### PRIVATE TUTOR - VERSION 2.0 PROGRAM DISK

**IDENTIFICATION NUMBER:** CAI0027R0390

**SUGGESTED AUDIENCE:** Anyone using the Private Tutor lesson packages.

**LENGTH/TIME:** Variable, self-paced.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.

**DESCRIPTION:** This self paced Private Tutor Version 2.0 Program Disk is required to run any of the Private Tutor lessons: Solving Math Word Problems, Math Computation Skills, Basic Number Concepts, and Preparing for Geometry and Algebra.

### QUALITY OF LIFE: BACK INJURY PREVENTION

**IDENTIFICATION NUMBER:** 803503 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 24 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)

**DESCRIPTION:** Lifting heavy objects is not the only cause of back pain. The muscles of the back can be strained or pulled in a number of ways, or the problem may be a disorder with a disc in the spine. Many back injuries can be avoided and prevention is better than trying to cure an existing painful condition. This presentation shows how the various parts of the back function, how certain activities can strain the muscles of the back and how to make changes in your lifestyle that will help prevent back injury. Preventing back pain is achieved by focusing on five key areas: (1) Exercise and fat control, (2) Better posture, (3) Proper lifting techniques, (4) Body mechanics, and (5) Rest.

### QUALITY OF LIFE: DRUG AND ALCOHOL ABUSE PREVENTION AND CONTROL - ZERO TOLERANCE

**IDENTIFICATION NUMBER:** 803508 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 33 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)

**DESCRIPTION:** This program discusses the Navy's policy on zero tolerance on alcohol and drug abuse. The question asked is, "What kind of person am I in relationship with alcohol and drugs? Do I use them, abuse them, control them, or do they control me?" Introduces to the men and women in the Navy the risks involved in using any drugs including legal drugs, such as alcohol and nicotine. Discusses signs, symptoms and objectives involved, and the sources of help and treatment.

### QUALITY OF LIFE: HEALTH AND PHYSICAL READINESS, PHYSICAL FITNESS AND SPORTS

**IDENTIFICATION NUMBER:** 803506 DN

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 18 minutes

**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** Sports activities help keep sailors healthy and fit which is a vital part in Navy personnel readiness. Total fitness combines flexibility, muscular strength and endurance, aerobic capacity and body composition. This program shows how to achieve total fitness, even if you are stationed aboard a ship with limited exercise equipment. Discusses weight and training programs, and how to calculate your heart rate target zone. Gives tips for a more healthy lifestyle: (1) If you smoke, stop, (2) If you drink, be sensible and (3) Safeguard your health with periodic physicals.

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**QUALITY OF LIFE: STRESS  
MANAGEMENT/HIGH BLOOD PRESSURE  
- LIVING WITH YOURSELF**

**IDENTIFICATION NUMBER:** 803505 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 23 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)  
**DESCRIPTION:** Living with yourself successfully means feeling that you can handle life's problems. Stress leads to depression, frustration and even desperation, if one does not know how to cope with it. At times stress can even make living itself seem very difficult. This program reviews stress coping skills, common Navy stresses, relaxation techniques, deep breathing exercises, guided imagery, myths of suicide and danger signs. Common physical responses to stress include: increased heart rate, rapid breathing, increases blood pressure, perspiration, nervousness, and loss of concentration.

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**QUALITY OF LIFE: TOBACCO USE  
EDUCATION AND PREVENTION - CLEARING  
THE AIR**

**IDENTIFICATION NUMBER:** 803504 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 20 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)  
**DESCRIPTION:** This presentation informs service members of the risk factors of tobacco use and SECNAV policy regarding smoking.

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**QUALITY OF LIFE: WEIGHT AND FAT  
CONTROL/NUTRITION EDUCATION  
- THE CHOICE IS YOURS**

**IDENTIFICATION NUMBER:** 803507 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 23 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)  
**DESCRIPTION:** Food is the fuel that keeps our bodies running smoothly and at peak performance. Maintaining an ideal weight is not enough. Our health and the quality of our lives depend on the eating habits we create and the price we pay for making bad choices. Diet and nutrition guidelines for better health and fitness include: (1) Eat a variety of foods, (2) Maintain a desirable weight, (3) Avoid too much fat and cholesterol, (4) Eat fiber and complex carbohydrates, (5) Avoid too much sugar, (6) Avoid too much sodium or salt, and (7) Drink alcoholic beverages in moderation. Eating a balanced diet of meat, fruits, vegetables, and grains will provide the right nutrition for an active lifestyle.

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**RULE MASTER**

**IDENTIFICATION NUMBER:** CAI0045R1093  
**SUGGESTED AUDIENCE:** All officers and enlisted personnel wanting to learn or review Rules of the Nautical Road  
**LENGTH/TIME:** Variable  
**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.  
**RESTRICTIONS:** This is a commercial package purchased by the Navy under a license agreement. It may not be duplicated, copied, or reproduced in any way other than that specified in the license agreement.  
**DESCRIPTION:** This package supplements the Rules of the Nautical Road package (CAI0002R0289) and contains a selection of quizzes on the topics of general rules, fog, lights and dayshapes and approach situations. After each question, you will be able to see the correct answer, and if desired, see an explanation, see the reference for the question, and repeat any questions you miss.

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# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## RULES OF THE NAUTICAL ROAD

**IDENTIFICATION NUMBER:** CAI0002R0289

**SUGGESTED AUDIENCE:** Commissioned officers and senior enlisted personnel actively engaged in the bridge control team functions and/or returning to an afloat command.

**LENGTH/TIME:** Variable. Eight lessons, one application exercise and a final exam. Time to complete, approximately ten hours.

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package consists of four phases: (1) Information, (2) Application, (3) Remediation, and (4) Evaluation. Users are presented with appropriate subject matter, questioned on it through the use of practice exercises, remediated on those items incorrectly answered, and evaluated with a scenario-based test. Content covers the appropriate actions under all conditions of visibility for situations encountered while under way, anchored, moored, or aground in both International and Inland Waters, and in accordance with, the International regulations for Preventing Collision at Sea, 1972, and the Inland Navigation Act of 1980.

## SAFETY PROGRAMS AFLOAT

**IDENTIFICATION NUMBER:** CAI0039R0793

**SUGGESTED AUDIENCE:** Commissioned officers and senior enlisted personnel actively engaged in safety programs.

**LENGTH/TIME:** Variable.

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package is a computer-based training version of the shorebased training course J-493-2099. It contains training for the PQS Watchstations 301 (Divisional Safety Petty Officer), Watchstation 302 (Electrical Tool Issue Petty Officer), and Watchstation 303 (Heat Stress Monitor). It also contains 28 fundamentals lessons.

## SECOND NATIONAL DRIVING TEST: ONE FOR THE ROAD

**IDENTIFICATION NUMBER:** 602708 DN

**SUGGESTED AUDIENCE:** General Military Training, NADSAP training, DAPA & CAAC personnel

**LENGTH/TIME:** 29 minutes

**HARDWARE FOR PRESENTATION:** 1/2 inch beta

**DESCRIPTION:** A sobering look at what happens to a driver's vision and judgment while under the influence of alcohol. Volunteer subjects at a party supervised by doctors and psychologists take part in a series of games -- first sober, then drunk. The games are actually experiments testing alertness, information processing, and split attention -- all key skills for driving. This is a presentation that party goers, bar hoppers, and casual drinkers can't afford to miss.

## SERIOUS PURSUIT

**IDENTIFICATION NUMBER:** CAI0009R0389

**SUGGESTED AUDIENCE:** All officers and enlisted personnel desiring to review Soviet armed forces, people, history, and geography.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package is a game which draws questions from the following five categories: Soviet geography, Soviet people, Soviet history, the Soviet Navy, and the other four armed services. The basis of this game is an understanding of the Soviet Union through its history, personalities, capabilities and its allies. Soviet seapower is more than just ships, aircraft and doctrine. It is centered around the men. This game will provide you with an understanding of these sailors. In addition to understanding, the game is just pure fun; but remember, this is SERIOUS PURSUIT. There is nothing trivial about the Soviet Navy. They are our greatest maritime adversary.

# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## SHIPBOARD DAMAGE CONTROL SHORING

**IDENTIFICATION NUMBER:** 34675 DN  
**SUGGESTED AUDIENCE:** Shipboard enlisted and officer personnel.  
**LENGTH/TIME:** 27 minutes  
**HARDWARE FOR PRESENTATION:** 16 MM or video tape (3/4-inch U-matic or 1/2-inch beta)  
**DESCRIPTION:** Describes three basic types of shoring and explains how to cut "K" type shoring, various methods of plugging and patching bulkhead and piping systems, and displays different tools and materials that may be used.

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## SHIPBOARD FIRE FIGHTING - PART 1 - AGENTS, EQUIPMENT AND SYSTEMS

**IDENTIFICATION NUMBER:** 801161 DN  
**SUGGESTED AUDIENCE:** All damage control personnel  
**LENGTH/TIME:** 17 minutes  
**HARDWARE FOR PRESENTATION:** 16 MM projector or video tape (3/4-inch U-matic or 1/2-inch beta)  
**DESCRIPTION:** This program explains the relationship between fuel, oxygen and heat, the three components which form the fire triangle. Identifies the four classes of fires and demonstrates systems and procedures used aboard ships in fighting fires utilizing various systems and agents, including chemicals, foam, halon and fixed systems. Also how firefighting parties are organized and used including post-fire procedures.

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## SHIPBOARD FIRE FIGHTING - PART 2 - BASIC PROCEDURES

**IDENTIFICATION NUMBER:** 801579 DN  
**SUGGESTED AUDIENCE:** All damage control personnel  
**LENGTH/TIME:** 22 minutes  
**HARDWARE FOR PRESENTATION:** 16 MM projector or video tape (3/4-inch U-matic or 1/2-inch beta)  
**DESCRIPTION:** This video teaches basic shipboard firefighting procedures, from reporting fires to post fire procedures. How damage control is organized for firefighting, what specified fire hazards exist aboard ship and how to prevent fires from happening. Also the agents, equipment and systems used, problems of specific fires and how to deal with special fire hazards are explained.

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## SHIPBOARD FIREFIGHTING PART 3 - EXTINGUISHING SPECIAL HAZARD FIRES

**IDENTIFICATION NUMBER:** 801358 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 15 minutes  
**HARDWARE FOR PRESENTATION:** 16 mm film projector  
**DESCRIPTION:** The film shows a realistic demonstration of hazards, locations and techniques associated with extinguishing class "D" material fires.

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## SHIP MAINTENANCE AND MATERIAL MANAGEMENT (3M), NAVEDTRA 4324F, WATCHSTATION 301 MAINTENANCE PERSON

**IDENTIFICATION NUMBER:** CA10035R1092  
**SUGGESTED AUDIENCE:** Navy maintenance personnel desiring to complete Watchstation 301 PQS qualifications.  
**LENGTH/TIME:** Variable  
**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.  
**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.  
**DESCRIPTION:** This package provides the requisite skills and knowledge for a maintenance person to complete the PQS line items for Watchstation 301, less those skills required to complete Organization Maintenance Management System (OMMS).

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## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

### SHIP MAINTENANCE AND MATERIAL MANAGEMENT (3M) OPERATIONS/ADMINISTRATION

**IDENTIFICATION NUMBER:** CAI0038R0993

**SUGGESTED AUDIENCE:** Navy maintenance personnel (E5 and above) desiring to complete 3M Operations/Administration training.

**LENGTH/TIME:** Variable

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This is a Navy-owned package. Its use is unrestricted.

**DESCRIPTION:** This package is a computer-based training version the shorebased training course J-500-0025. It provides the requisite skills and knowledge for a maintenance person to complete the PQS line items for Fundamentals Units 101-112, Watchstation 301 (Maintenance Person), and Watchstation 303 (3M Workcenter/Group Supervisor).

### SOLID STATE MOTOR CONTROLS

**IDENTIFICATION NUMBER:** 804805 DN

**SUGGESTED AUDIENCE:** Electrical rates

**LENGTH/TIME:** 75 minutes

**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)

**DESCRIPTION:** This 5-part series introduces the basic components, operation and application of solid state motor controls.

### STABILITY FOR NAVAL VESSELS

**IDENTIFICATION NUMBER:** CAI0030R1093

**SUGGESTED AUDIENCE:** All personnel interested in ship stability.

**LENGTH/TIME:** Variable 6 to 10 hours

**HARDWARE FOR PRESENTATION:** 386 computer with hard-disk and CD-ROM drive, VGA color monitor, and MS-DOS 5.0 or compatible.

**RESTRICTIONS:** This package has been purchased by the United States Navy (USN) under an Unlimited License agreement. The USN may duplicate and reproduce this software on any medium. The software program is restricted to USN personnel only.

**DESCRIPTION:** This computer-based instruction (CBI) package covers basic and advanced materials related to routine and special assessments of ship stability. The course emphasizes practical applications of ship stability calculations for Navy vessels of all sizes. Also, certain practical applications relate to the FFG-55 vessel. Consequently, aside from becoming knowledgeable on the subject of stability, you are also learning the stability performance of the FFG-55.

### STREET SMARTS: HOW TO AVOID BEING A VICTIM

**IDENTIFICATION NUMBER:**

**SUGGESTED AUDIENCE:** All hands

**LENGTH/TIME:** 60 minutes

**HARDWARE FOR PRESENTATION:** Video tape 1/2-inch VHS

**DESCRIPTION:** Filmed before a live audience, this fast-paced program reveals the four basic components of a strategic plan that will teach individuals how to safely and effectively cope with potentially threatening situations -- at home, at work, and on the streets. The video teaches the viewer how to become a "tough target," how denying privacy can save lives, how to use situation-specific means for attracting attention, how and when to take action, and how to develop common sense personal safety strategies for a variety of everyday situations.

### TAO THREAT RECOGNITION TRAINING

**IDENTIFICATION NUMBER:** CAI0007R1289

**SUGGESTED AUDIENCE:** Surface Tactical Action Officers

**LENGTH/TIME:** Variable. Four modules AAW, ASW, ASUW, and Multi-threat. Time to complete, approximately three hours.

**HARDWARE FOR PRESENTATION:** Zenith Z-248 computer with dual-floppy disk or hard-disk system, EGA card, and color monitor, or compatible.

**RESTRICTIONS:** This is a Navy-owned package. It is classified SECRET.

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM

**DESCRIPTION:** This computer-based instruction (CBI) package consists of four modules: (1) AAW, (2) ASW, (3) ASUW, and (4) Multi-threat. Users are presented with appropriate subject matter, questioned on it, and provided feedback.

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### TARGET BY CHOICE

**IDENTIFICATION NUMBER:** 804368 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 15 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic, 1/2-inch beta, or 1/2-inch VHS)  
**DESCRIPTION:** This is an antiterrorism presentation suitable for shipboard security and MAA forces.

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### TECHNICAL SURVEILLANCE COUNTERMEASURES

**IDENTIFICATION NUMBER:** N/A  
**SUGGESTED AUDIENCE:** Command personnel who need to know  
**LENGTH/TIME:** 30 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4 inch U-matic)  
**ORDER FROM:** NIS Headquarters  
**DESCRIPTION:** This secret briefing is presented by a Technical Investigative Specialist of the Naval Investigative Service, and is tailored for specific audiences. Requests should be submitted to NIS Headquarters. The briefing is normally presented to command personnel during the visit for Technical Surveillance Countermeasures inspection purposes, but can be separately provided. Covers the history and nature of the technical surveillance penetration threat, discusses command and personnel actions in case of discovery.

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### TELEPHONE SECURITY - YOUR PIECE OF THE PUZZLE

**IDENTIFICATION NUMBER:** 82947 DN  
**SUGGESTED AUDIENCE:** All hands  
**LENGTH/TIME:** 25 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (3/4-inch U-matic)  
**DESCRIPTION:** This presentation points out the necessity for telephone security.

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### VALVES

**IDENTIFICATION NUMBER:** 804806 DN  
**SUGGESTED AUDIENCE:** Engineering Rates  
**LENGTH/TIME:** 20 minutes  
**HARDWARE FOR PRESENTATION:** Video tape (1/2-inch beta)  
**DESCRIPTION:** This video covers the theory and application of valves used by the Navy.

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# SHIPBOARD TRAINING ENHANCEMENT PROGRAM

## SHIPBOARD TRAINING ENHANCEMENT PROGRAM CATALOG ADDITIONS/REVISIONS

Date \_\_\_\_\_

Command \_\_\_\_\_

**Point-of-contact** \_\_\_\_\_

Telephone \_\_\_\_\_

**TITLE:** \_\_\_\_\_

IDENTIFICATION NUMBER: \_\_\_\_\_

**SUGGESTED AUDIENCE:** \_\_\_\_\_

DEVELOPED BY: \_\_\_\_\_

**LENGTH/TIME:** \_\_\_\_\_

**HARDWARE FOR PRESENTATION:** \_\_\_\_\_

**AUTHORING SYSTEM:** \_\_\_\_\_

**DOCUMENTATION:** \_\_\_\_\_

**MAINTENANCE:** \_\_\_\_\_

DATE OF INTRODUCTION: \_\_\_\_\_

**ORDER FROM:** \_\_\_\_\_

**COST:** \_\_\_\_\_

**DESCRIPTION:** \_\_\_\_\_

\_\_\_\_\_

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## PART 6

### NAVAL WAR COLLEGE

### COLLEGE OF CONTINUING EDUCATION

#### GENERAL INFORMATION

Although not every officer has the opportunity to attend the Naval War College in residence, all eligible officers can participate through non-traditional programs administered by the College of Continuing Education. These programs afford the nonresident student the opportunity to participate in essentially the same core courses available to resident students. These courses have been designed to enable the nonresident student to earn the Naval War College diploma and, in so doing, to achieve certification for Joint Professional Military Education (PJE) Phase 1. Further, they provide professional enrichment that will greatly reward the student and the Navy.

#### COURSES OFFERED

Nonresident graduate-level educational courses are offered in the following subject areas:

##### Core Courses

- (1) Joint Military Operations (JMO)
- (2) Strategy and Policy (S&P)
- (3) National Security Decision Making (NSDM)

##### Elective Courses

- (1) International Law (IL)
- (2) International Relations (IR)

#### COURSE DESCRIPTIONS

**JOINT MILITARY OPERATIONS** - The Joint Military Operations course is designed to increase awareness of the decision factors involved in the application of naval power as it relates to joint and combined military operations. Historical principles and case studies, international law, naval missions and functions, present day systems and capabilities are examined. Warfare principles are introduced and decision making is exercised in a series of naval engagement problems culminating in a planning problem and sea control decision game.

**STRATEGY AND POLICY** - This course offers an examination in depth of a series of case studies in military and diplomatic history, international relations, and national security affairs. Among topics covered are the relationships between foreign policies and military strategies, the use of war as a political instrument, civil-military relations, alliance politics, policies of war avoidance, strategic theory, maritime strategy and sea power.

**NATIONAL SECURITY DECISION MAKING** - National Security Decision Making is a multi-discipline course designed to develop management skills in making and/or staffing high level decisions affecting the allocation of resources in the national security environment. The course synthesizes concepts from organizational psychology, economics, analytical decision tools, political science, and management control. Integrating themes in the course are decision making under uncertainty and resource allocation. Points of theory are studied and applied to cases dealing with organizational situations representing complex national security issues. The spectrum of cases range from those dealing with major force alternatives to those involving complex behavioral situations.

**INTERNATIONAL LAW** - The International Law elective is designed to provide an understanding of basic principles of international law and a means of analyzing their applicability to areas of military operations, thereby enhancing the capability to make sound military decisions.

**INTERNATIONAL RELATIONS** - The International Relations elective investigates fundamental principles, concepts, and political processes in international affairs. The course provides a theoretical and practical framework within which events on the international scene may be organized, viewed and understood.

#### ADMINISTRATIVE SUMMARY

The College of Continuing Education enrolls mid-grade (Sea-service 03 and above; other service 0-4 and above) and senior U.S. military officers and equivalent grade (GS-13 and above) government civilian employees in a curriculum which parallels offerings in the resident College of Naval Command and Staff. Waivers of rank requirements are not granted.

The nonresident program uses two modes of instruction:

- correspondence courses offered worldwide, and,
- seminars offered at specified sites throughout the United States.

## NAVAL WAR COLLEGE COLLEGE OF CONTINUING EDUCATION

At any time, qualified students may enroll in the correspondence course of their choice, but may be enrolled in only one course at a time. Once enrolled, students are expected to submit graduate level responses at about 4 to 6 week intervals. Course requirements are answered subjectively, in essay format and must be typewritten. Graduate writing standards apply to all work. Most students will need to devote a minimum of 5 to 7 hours weekly to meet submission requirements. Students who are unable to meet submission intervals will be involuntarily dropped from the program. The estimated hours of study vary from course to course, from about 100 hours for elective courses to three to four hundred hours for each core course.

Evening seminar programs offer the same core courses and run from September through May, meeting one night weekly. Students must apply for these courses during the limited enrollment period from June through July annually. These courses are offered currently in the following locations;

Annapolis, Maryland  
Corpus Christi, Texas  
Dahlgren, Virginia  
New Orleans, Louisiana  
Newport, Rhode Island  
Norfolk, Virginia  
Patuxent River, Maryland  
Pensacola, Florida  
San Diego, California  
San Francisco, California  
Seattle, Washington  
Warminster, Pennsylvania  
Washington, DC area

For further information and an application, write to:

President, (Code G)  
Naval War College  
College of Continuing Education  
686 Cushing road  
Newport, RI 02841-1207

## PART 7

# NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND TRAINING PRODUCTS

### INTRODUCTION

The Commander, Naval Meteorology and Oceanography Command administers on board training material in the form of individualized Practical Training Publications to assist operational commanders with ongoing training of personnel in the areas of meteorology and oceanography.

### ELIGIBILITY

These courses are designed and recommended for Aerographer's Mates. Requests from other personnel will be evaluated on a case by case basis.

Requests for Practical Training Publications should be by official correspondence to:

Commanding Officer  
Naval Oceanographic Office, Code N2513,  
Stennis Space Center, MS 39522-5001

### PROGRAM DESCRIPTION

Practical Training Publications are designed for individual study. Each text is related to specific operations, procedures or equipment. Texts are for multiple use and only limited copies, per command, will be distributed.

NUMBER: NAVEDTRA 40180-A  
TITLE: TOWER VISIBILITY OBSERVATION  
Program highlights prevailing visibility and reporting values for tower visibility observations.  
(For use with NAVEDTRA 40181-A and NAVEDTRA 40182-A.)

NUMBER: NAVEDTRA 40181-A  
TITLE: TOWER VISIBILITY OBSERVATION  
TEST SERIES 000  
Qualification test for tower visibility observers.  
(For use with NAVEDTRA 40180-A.)

NUMBER: NAVEDTRA 40182-A  
TITLE: TOWER VISIBILITY OBSERVATION  
TEST SERIES 100  
Qualification test for tower visibility observers.  
(For use with NAVEDTRA 40180-A.)

NUMBER: NAVEDTRA 40183-A  
TITLE: TOWER VISIBILITY OBSERVATION  
TEST SUPERVISOR'S GUIDE  
(See Note 1)  
Test Series 000 and 100 answers.

NUMBER: NAVEDTRA 40190-A  
TITLE: ATMOSPHERIC REFRACTION  
Shows how to evaluate atmospheric variables which cause anomalous propagation and refraction of radar/radio waves.

NUMBER: NAVEDTRA 40390-A  
TITLE: PREPARING ASTRONOMICAL AND TIDAL DATA  
Procedures for finding and extracting precise sun, moon, and tidal data.

NUMBER: NAVEDTRA 40480-A  
TITLE: ENCODING, DECODING AND PLOTTING THE SYNOPTIC REPORT  
Explains each code group of the synoptic code, and provides instruction for encoding, decoding, and plotting the code. Contains numerous plotting exercises.

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**Series of PTP's to train Aerographer's Mates in the fundamental aspects of forecasting for the Mid-Latitudes.**

NUMBER: NAVEDTRA 40501  
TITLE: FORECASTING FOR THE MID-LATITUDES, LEARNER'S WORKBOOK - VOLUME I

NUMBER: NAVEDTRA 40502  
TITLE: FORECASTING FOR THE MID-LATITUDES, LEARNER'S WORKBOOK - VOLUME II

NUMBER: NAVEDTRA 40503  
TITLE: FORECASTING FOR THE MID-LATITUDES, LEARNER'S WORKBOOK - VOLUME III

NUMBER: NAVEDTRA 40504-A  
TITLE: FORECASTING FOR THE MID-LATITUDES, LEARNER'S GUIDE

NUMBER: NAVEDTRA 40505  
TITLE: FORECASTING FOR THE MID-LATITUDES, LEARNER'S CHART BOOK

NUMBER: NAVEDTRA 40506  
TITLE: FORECASTING FOR THE MID-LATITUDES, PERFORMANCE TEST BOOK

# NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND TRAINING PRODUCTS

NUMBER: NAVEDTRA 40507-A  
TITLE: FORECASTING FOR THE  
MID-LATITUDES, SUPERVISOR'S GUIDE  
(See Note 1)

NUMBER: NAVEDTRA 40508  
TITLE: FORECASTING FOR THE  
MID-LATITUDES, LEARNER'S WORKBOOK -  
VOLUME IV

NUMBER: NAVEDTRA 40509  
TITLE: FORECASTING FOR THE  
MID-LATITUDES, VOLUME IV TEST

Attention: A new six volume course  
"INTRODUCTION TO FORECASTING" (METOC  
50-IP-0002) will be available as a NAVOCEANO  
correspondence course Summer 94, and will  
supersede the Forecasting for Mid-Latitudes Course  
1 January 95.

NUMBER: NAVEDTRA 40520-A  
TITLE: INTRODUCTION TO ELECTRO-OPTICS  
Covers the basic concepts of electro- optics, and its  
relationship to weapons.

NUMBER: NAVEDTRA 40530  
TITLE: TROPICAL STREAMLINE ANALYSIS  
Teaches basic analysis of charts in tropical regions.

NUMBER: NAVEDTRA 40560  
TITLE: SEA AND SWELL FORECASTING  
Identifies fundamental equations for calculating Sea  
and Swell.

NUMBER: NAVEDTRA 40570  
TITLE: SURF FORECASTING  
Assists personnel in making an accurate surf  
forecast.

NUMBER: NAVEDTRA 40620  
TITLE: TROPICAL SYNOPTIC MODELS  
Teaches about pressure systems found in the  
tropics.

NUMBER: NAVEDTRA 40650  
TITLE: EVALUATING AND ENCODING  
BATHYTHERMOGRAPH (BT) DATA  
Teaches the criteria for evaluating and encoding  
bathythermographic traces.

NUMBER: NAVEDTRA 40850 (Superseded by  
course NAVEDTRA 13079. See Part 1 of this  
catalog)

NUMBER: NAVEDTRA 40860  
TITLE: OPERATIONAL OCEANOGRAPHY -  
MODULE II ACOUSTICS AND SOUND RAY  
THEORY

Describes basic principles of sound and how it  
travels in the ocean medium.

NUMBER: NAVEDTRA 40861  
TITLE: OPERATIONAL OCEANOGRAPHY-  
MODULE II SUPERVISOR'S GUIDE  
(See Note 1)  
Answers and instructions regarding NAVEDTRA  
40860

NUMBER: NAVEDTRA 40870  
TITLE: OPERATIONAL OCEANOGRAPHY -  
MODULE III, INTRODUCTION TO ASW  
SENSORS AND PLATFORMS  
Explains in detail the operations of Anti-Submarine  
Warfare sensors and their host platforms.

NUMBER: NAVEDTRA 40871  
TITLE: OPERATIONAL OCEANOGRAPHY -  
MODULE III, INTRODUCTION TO ASW  
SENSORS AND PLATFORMS-SUPERVISOR'S  
GUIDE  
Answers to NAVEDTRA 40870

NUMBER: NAVEDTRA 40950  
TITLE: SATELLITE IMAGERY  
INTERPRETATION IN SYNOPTIC AND  
MESOSCALE METEOROLOGY  
Teaching publication produced by the Canadian  
Government dealing with the interpretation of  
meteorological data from satellite based platforms.

NUMBER: NAVEDTRA 40970  
TITLE: A WORKBOOK ON TROPICAL  
CLOUDS AND CLOUD SYSTEMS OBSERVED  
IN SATELLITE IMAGERY - VOLUME I  
This workbook deals with the interpretation of  
tropical clouds and weather systems as they appear  
in satellite imagery.

NUMBER: NAVEDTRA 40980  
TITLE: BASIC SURFACE CHART ANALYSIS  
Teaches basics of analyzing surface charts, using  
only surface synoptic data. Includes basics of  
isobaric analysis as well as warm, cold, and oc-  
cluded front analysis.

# **NAVAL METEOROLOGY AND OCEANOGRAPHY COMMAND TRAINING PRODUCTS**

**NUMBER: NAVEDTRA 40990**

**TITLE: INTRODUCTION TO MAPPING,  
CHARTING, AND GEODESY**

The purpose of this publication is to provide 1800 officers with an introduction to the technical aspects of Mapping, Charting, and Geodesy and to prepare a foundation from which further expertise can be built.

**NUMBER: NAVEDTRA 40991**

**TITLE: INTRODUCTION TO MAPPING,  
CHARTING, AND GEODESY - GRADING KEY**

**(See Note 1)**

**Answer key to NAVEDTRA 40990.**

**Note 1      Distribution is limited.**

## PART 8

# FOREIGN AND ENGLISH LANGUAGE NONRESIDENT TRAINING PRODUCTS

### INTRODUCTION

A nonresident language program is any language program or course of instruction operated by any Naval Command or Reserve Component (exclusive of the Naval Academy, overseas dependents' schools, and programs conducted strictly for the purpose of voluntary personal development or obtaining academic credit). The Commandant, Defense Language Institute, Foreign Language Center (ATFL- TDN), Presidio of Monterey, CA 93944-5006 is responsible for the foreign language area of the program and the Commandant, Defense Language Institute, English Language Center (DLIELC), 1370 Selfridge Avenue, Lackland Air Force Base, TX 78236-5231 (DSN 473-2531) manages the English Language area. Both have catalogs of materials which may be obtained by writing the appropriate Center.

### POLICIES

The following policies apply to nonresident language training.

- Nonresident language programs shall be managed in accordance with OPNAVINST 1550.7B.
- In accordance with OPNAVINST 1550.7B, the Navy Service Program Manager (SPM) is the Navy representative for nonresident foreign language programs. The Navy SPM's address:  
Chief of Naval Operations, OP-13F  
Navy Annex, Federal Building #2  
Washington, DC 20350  
(Ref: OPNAVINST 1550.7B, 1-4-a-(4), 1-4-c-(2), (9), (14))
- The establishment of a formal nonresident language program requires the approval of the appropriate Defense Language Center.

### ESTABLISHING A NONRESIDENT LANGUAGE PROGRAM

All commands may establish nonresident language programs for cultural or refresher programs to satisfy Mission and/or job related requirements. Commands which are located in non-English speaking countries are encouraged to establish programs in the host language.

Overseas shore commands having a requirement for a language program will forward requests to the appropriate Defense Language Center. The request will contain the following information:

1. The language program mission and course objectives, including skill levels desired.
2. The number of students to be trained annually (by language).
3. The availability of training facilities, including language laboratory systems and portable language tape recorders.
4. A listing of available instructional materials.
5. Instructor(s) qualifications.
6. Total length of course in hours and weeks.
7. Instructional hours per day, per week.
8. Estimated direct operating costs.
9. Screening and proficiency tests as applicable.

The appropriate Defense Language Center will review the technical aspects of the proposed language program and will approve and/or make appropriate technical recommendations to the requesting command.

Commands will be advised concerning availability of suitable materials.

### SELF-PACED AND SELF-INSTRUCTIONAL LEARNING

Self-study foreign language courses such as Headstart programs are available at cost for individual members of the Armed Services from:

Defense Language Institute  
Foreign Language Center  
ATTN: ATFL-OPD-DE  
Presidio of Monterey, CA 93944-5006  
(Ref: DLIFLC Pam 350-5, Catalog of Instructional Materials, January 1991, p. 1-2)

Service members who have taken the Defense Language Proficiency Test (DLPT) within the past calendar year, scored a minimum of Listening 1, Reading 1, and forward a photocopy of their DLPT scores to DLIFLC will be provided a one-time issue of appropriate Refresher-Maintenance language materials gratis. (Ref: OPNAVINST 1550-7B, 15 March 1987, 3-4-e)

Service members who wish to learn a foreign language for personal development may purchase appropriate materials from DLIFLC. A check or money order payable to the TREASURER OF THE UNITED STATES should be sent to:

# FOREIGN AND ENGLISH LANGUAGE NONRESIDENT TRAINING PRODUCTS

DLIFLC  
ATTN: ATFL-OPD-DE  
Presidio of Monterey, CA 93944-5006

Phone: DSN 878-5112/5319  
COM 408-647-5112/5319

DLIFLC Pam 350-5 (Catalog of Instructional Materials, January 1991) contains a list of currently available courses and the corresponding prices.

Units wishing to purchase materials can do so by forwarding a copy of DA form 448 (Military Interdepartmental Purchase Request) to DLIFLC.

Units will be provided initial stocks of DLI nonresident program materials gratis upon approval of their request to establish a program. Requisitions for additional stocks will be submitted to the Service Program Manager for validation and forwarding to the Commandant, DLIFLC (Ref: OPNAVINST 1550.7B, 15 March 1987, 3-4-a).

Service members not associated with an approved program will be provided appropriate materials when their orders explicitly indicate that they are required to acquire a certain level of proficiency in a foreign language prior to assignment overseas (Ref: OPNAVINST 1550.7B, 15 March 1987, 3-4-e).

Any questions pertaining to establishment of foreign language training programs, acquisition of training materials, or requesting training services form DLIFLC should be directed to:

COMMANDANT  
DLIFLC  
ATTN: ATFL-OPD-DE  
Presidio of Monterey, CA 93944-5006

Phone: DSN 878-5112/5319  
COM 408-647-5112/5219

For persons not on orders overseas, the GERMAN HEADSTART, HEADSTART FOR LATIN AMERICA, HEADSTART FOR SPAIN, or FRENCH. HEADSTART FOR BELGIUM and ITALIAN HEADSTART are only available for purchase from the National AudioVisual Center. Write or call:

The National AudioVisual Center  
8700 Edgeworth Drive  
Capitol Heights, MD 20743-3701

(For Credit Card Orders call TOLL FREE:  
800-638-1300)

Persons with CONUS orders should send a copy of these orders to DLI when purchasing any of these four Headstart packages.

This policy change applies to individuals. It does not apply to the nonresident language programs that are approved by DLI.

We will continue to support these activities in accordance with paragraphs 3-3 and 3-4 of AR 350-20, Training Management of the Defense Language Program, 15 March 1987.

Materials will be issued over the counter, mailed or shipped by the stocking centers if requested.

## TECHNICAL ASSISTANCE

A command may request technical assistance to establish a language training program or for ongoing education programs from the appropriate Defense Language Center. Assistance will be in the form of written guidance and/or on site evaluation and will include information on teaching methodologies, programs of instruction, course materials, instructor qualifications, and instructor training.

If materials are not available in the inventory of the appropriate Defense Language Center, suitable materials or sources for such materials will be recommended. In certain cases, upon request, the appropriate Defense Language Center will initiate the development of course materials for any program in which there is a continuing requirement.

## FOREIGN APTITUDE AND PROFICIENCY TEST

Aptitude for language learning is measured by the Defense Language Aptitude Battery (DLAB). Proficiency levels in speaking, reading, writing and listening to a specific language are measured by Defense Language Proficiency Tests (DLPT). Tests may be ordered from Commanding Officer, Naval Education and Training Program Management Support Activity (NETPMSA Code 322), Pensacola, Florida 32509-5400, DSN 922-1365. Provide name, rank, SSAN, and purpose of testing. Cassette tapes will be provided for the listening part of the test. All tests are controlled items and require security container storage. Tests results are sent by NETPMSA to COMNAVMILPERSCOM (NMPC 313) for entry on service records.

## PART 9 MANDATORY TRAMANS/NRTCS

### MANDATORY TRAMAN/NRTC REQUIREMENTS

The training manuals (TRAMANS) and nonresident training courses (NRTCs) listed in Tables 1, 2, and 3 are MANDATORY for advancement eligibility. Table 1 lists mandatory Military requirements; Table 2 lists mandatory Apprenticeship requirements; and Table 3 lists mandatory Rating-specific requirements.

TRAMANS and NRTCs listed in Tables 1, 2, and 3 may be ordered as shown in Part 1 (Part 2 for CT personnel) of this catalog. The following numbering system is used for **MOST** TRAMANS and NRTCs:

- TRAMANS and TRAMAN/NRTCs normally start with a "1", such as 10301-1 or 12360.
- NRTCs normally start with an "8" or "7", and sometimes a "6", such as 82043, 70335, or 62215.
- NRTCs that have no associated TRAMAN normally start with "13", such as 13090, or 13098.

Table 1.--Mandatory Military TRAMAN/NRTC  
Requirements for All Paygrades

PAYGRADE	TRAMAN/NRTC TITLE AND NAVEDTRA NUMBER
E-3	Basic Military Requirements 12043/82043
E-4	Military Requirements for PO3 12044/82044
E-5	Military Requirements for PO2 12045/82045
E-6	Military Requirements for PO1 12046/82046
E-7	Military Requirements for CPO 12047/82047
E-8/E-9	Military Requirements for Senior & Master CPO 12048/82048

Table 2.--Mandatory Rating-Specific TRAMAN/NRTC  
Requirements for Apprenticeship Ratings

APPRENTICESHIP	TRAMAN/NRTC TITLE AND NAVEDTRA NUMBER
AIRMAN	AIRMAN 12000/82000
CONSTRUCTIONMAN	NONE
DENTALMAN	NONE
FIREMAN	FIREMAN 12001/82001
HOSPITALMAN	NONE
SEAMAN	SEAMAN 12016/82016



# MANDATORY TRAMANS/NRTC

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
ABE	ABE3&2 12360/82360		ABE1&C 12362/82362	
ABF	ABF 12364 ABF3&2 72364		ABF 12364 ABF1&C 82364	
ABH	ABH3&2 10335 ABH3 80335	ABH3&2 10335 ABH2 70335	ABH1&C 12370/82370	
AC	NONE	AC 12390 AC2 72390	AC 12390 AC1&C 82390	
AD	AD3&2 12300/82300 AMR FUNDAMENTALS 12010-A		AMR SUPERVISOR 12011-A	
AE	AE3&2 10348-G/80348-A AMR FUNDAMENTALS 12010-A		AE1 10366/80366 AMR SUPERVISOR 12011-A	AMR SUPERVISOR 12011-A
AG	AG3 12850/82850 NEETS MOD 22 B72-22-00-88 172-22-00-88	AG2 V1 10370/80370 AG2 V2 10371/80371-A	AG1&C 10362-B1	
AK	AK3 10393-1	AK2 12655/82655	AK1 10395/80395	AKC 10396/80396
AME	AMR FUNDAMENTALS 12010-A	AME2 10401/80401 AMR FUNDAMENTALS 12010-A	AME1&C 12318/82318 AMR SUPVERVISOR 12011-A	
AMH	AMH/AMS 3&2 12338/82338 AMR FUNDAMENTALS 12010-A		AMR SUPERVISOR 12011-A	
AMS	AMH/AMS 3&2 12338/82338 AMR FUNDAMENTALS 12010-A		AMR SUPERVISOR 12011-A	

# MANDATORY TRAMANS/NRTC

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
AO	AO3&2 12308/82308 AMR FUNDAMENTALS 12010-A		AO1 10346/80346 AMR SUPERVISOR 12011-A	AMR SUPERVISOR 12011-A
AS	AS3 10356/80356 AMR FUNDAMENTALS 12010-A	AS2 10357/80357 AMR FUNDAMENTALS 12010-A	AS1 10358/80358 AMR SUPERVISOR 12011-A	AMR SUPERVISOR 12011-A
AT(I)	AT3 12329/82329 AMR FUNDAMENTALS 12010-A	AT2(I) 12334/82334 AMR FUNDAMENTALS 12010-A	AV1&C 10389/80389 AMR SUPERVISOR 12011-A	
AT(O)	AT3 12329/82329 AMR FUNDAMENTALS 12010-A	AT2(O) 12330/82330 AMR FUNDAMENTALS 12010-A	AT1(O) 12331/82331 AMR SUPERVISOR 12011-A	AV1&C 10389/80389 AMR SUPERVISOR 12011-A
AW	AW3&2 MOD 1 A60-01-45-86/060-01-45-86 AW3 MOD 2 A60-02-44-88/060-02-44-88 AW3&2 MOD 3 A60-03-45-90/060-03-45-90 AW3&2 MOD 4 A60-04-45-92/060-04-45-92		AW1&C 12810/82810	
AZ	AZ3&2 12324/82324		AZ1 10376/80376 AMR SUPERVISOR 12011-A	AMR SUPERVISOR 12011-A
BM	BM V1 10101 BM3 70101	BM V1 10101 BM2 80101	BM V2 12102/82102	
BT	BT3&2 12140 BT3 82140	BT3&2 12140 BT2 72140	BT1&C 10536-F/80536	

# MANDATORY TRAMANS/NRTCS

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
BU	BU3&2 V1 12520/82520 BU3&2 V2 10647/80647 SEABEE COMBAT HANDBOOK V1 120C3/82003		BU1 10649-G1/80649 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
CE	CE 3 12523/82523 SEABEE COMBAT HANDBOOK V1 12003/82003	CE 3&2 10636-J/80636 SEABEE COMBAT HANDBOOK V1 12003/82003	CE1 12525/82525 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
CM	CM 3&2 10644-G1 SEABEE COMBAT HANDBOOK V1 12003/82003		CM ADVANCED 12528/82528 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
CTA	NSG MOD 11 683-11-00-88 684-11-00-88 NSG MOD 19 683-19-44-92 684-19-44-92 NSG MOD 25 684-25-55-93 683-25-55-93	NSG MOD 26 684-26-55-94 683-26-55-94 CTTS MOD 26 A95-26-55-91 095-26-55-92	NSG MOD 1 683-01-00-91 684-01-00-91 NSG MOD 31 684-31-66-94 683-31-66-94	NONE
CTI	NSG MOD 11 683-11-00-88 684-11-00-88 NSG MOD 16 683-16-44-91 684-16-44-91	NSG MOD 6 683-06-44-90 684-06-44-90 NSG MOD 9 683-09-44-91 684-09-44-91 NSG MOD 22 683-22-00-92 684-22-00-92	NSG MOD 1 683-01-00-91 684-01-00-91 NSG MOD 23 683-23-00-93 684-23-00-93	NSG MOD 24 683-24-00-92 684-24-00-92
CTM	NSG MOD 11 683-11-00-88 684-11-00-88 CTTS MOD 11 A95-11-44-88 095-11-44-88 CTTS MOD 14 A95-14-44-89 095-14-44-89	NSG MOD 11 683-11-00-88 684-11-00-88 CTTS MOD 11 A95-11-44-88 095-11-44-88	NSG MOD 1 683-01-00-91 684-01-00-91	NONE

# MANDATORY TRAMANS/NRTCS

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
CTO	NSG MOD 11 683-11-00-88 684-11-00-88 NSG MOD 19 683-19-44-92 684-19-44-92 NSG MOD 21 683-21-00-93 684-21-00-93	CTTS MOD 1 A95-01-44-90 095-01-44-90 NSG MOD 7 683-07-44-92 684-07-44-92 NSG MOD 20 683-20-00-93 684-20-00-93	NSG MOD 1 683-01-00-91 684-01-00-91	NONE
CTR	NSG MOD 11 683-11-00-88 684-11-00-88 NSG MOD 16 683-16-44-91 684-16-44-91	NSG MOD 5 683-05-44-89 684-05-44-89 NSG MOD 6 683-06-44-90 684-06-44-90 NSG MOD 9 683-09-44-91 684-09-44-91 NSG MOD 22 683-22-00-92 684-22-00-92	NSG MOD 1 683-01-00-91 684-01-00-91 NSG MOD 23 683-23-00-93 684-23-00-93	NSG MOD 24 683-24-00-92 684-24-00-92
CTT	NSG MOD 11 683-11-00-88 684-11-00-88	NSG MOD 4 683-04-44-88 684-04-44-88 NSG MOD 17 684-17-44-92 NSG MOD 22 683-22-00-92 684-22-00-92	NSG MOD 1 683-01-00-91 684-01-00-91 NSG MOD 18 683-18-55-92 NSG MOD 23 683-23-00-93 684-23-00-93	NSG MOD 24 683-24-00-92 684-24-00-92
DC	DC3&2 10572/80572		HT1&C 10574 DC1&C 70574	
DK	DK3&2 12658/82658		DK1&C 10275-G/80275	
DM	DM 10472 DM3&2 80472		DM 10472 DM1&C 80473	
DP	DP3 10263/80263 INTRO TO PROGRAMMING IN BASIC 10079-2	DP2 12511/82511	DP1&C 10265-D1	

# MANDATORY TRAMANS/NRTCS

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
DS	DS TRAINING SERIES VOLS 1 & 2 12501/82501 12502/82502 DS3&2 10231/80231		DS TRAINING SERIES VOL 6 12506/82506	
DT	DENTAL ASSISTANT, BASIC 12570/82570		DENTAL ASSISTANT, ADVANCED 12571/82571	
EA	EA3 10696/80696 SEABEE COMBAT HANDBOOK V1 12003/82003	EA3&2 V2 10628 EA3&2 V3 10629-1 SEABEE COMBAT HANDBOOK V1 12003/82003	EA1&C 10635-C EA1 80635-1 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
EM	EM3&2 10546-F/80546		EM1&C 10547-E	
EN	EN3 10539/80539	EN2 12149/82149	EN1&C 10543-E1	
EO	EO3 10692/80692 SEABEE COMBAT HANDBOOK V1 12003/82003	EO3&2 10640-J1 SEABEE COMBAT HANDBOOK V1 12003/82003	EO ADVANCED 12537/82537 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
ET	NONE	ET VOLS 1-4/9 12411/82411 12412/82412 12413/82413 12414/82414 12419/82419 ET 3&2 10197/80197-1	ET SUPV (ET1) 12410/72410	ET SUPV (ETC) 12410/82410
EW	EW3&2 12478/82478		EW1&C 12480/82480	
FC	FC3 10276-1	FC2 10277/80277-A	FC1 10278/80278-1	FCC 10279/80279-A
FT	FTG3&2 12400/82400		FT1&C 12402/82402	

# MANDATORY TRAMANS/NRTC

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
GMG	GMG3&2 12442/82442		GMG1 10292/80292	GMC 10293/80293
GMM	GMM3&2 V1 10188 GMM3&2 V2 10189		GMM1 10291/80291	GMC 10293/80293
GSE	GSE3/GSM3 V1 10563/80563 GSE3/GSM3 V2 10564/80564	GSE2 12153/82153	GS1&C V1 10552/80552-1 GSE1&C V2 10551/80551-1	
GSM	GSE3/GSM3 V1 10563/80563 GSE3/GSM3 V2 10564/80564	GSM2 12157/82157	GS1&C V1 10552/80552-1 GSM1&C V2 10549/80549-1	
HM	HM3&2 10669-C/80669		HM1&C 10670-C/80670	
HT	HT3&2 10571-1		HT1&C 10574/91249-B1	
IC	IC3 10559-A/80559	IC V2 12161/82161	IC V3 12162/82162	
IM	IM3&2 10193-D/80193		IM1&C 12202/82202	
IS	IS3&2 V1 10271-1 IS3&2 V2 10272/80272 IS3&2 V3 10273/80273		IS1&C 12806/82806	
JO	NONE	JO2 10296-1/80296 PUBLIC AFFAIRS POLICY AND REGULATIONS 13086	JO1&C 12706/82706	
LI	LI 10451 LI3&2 80451		LI 10451 LI1&C 80452	

# MANDATORY TRAMANS/NRTCS

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
LN	NONE	LN2 MODS 1-4/6 288-01-55-83 288-02-55-87 288-03-55-81 288-04-55-83 C88-06-55-86 288-06-55-86	LN1 10457/80457	LNC 10458/80458
MA	MA2,1&C 10255/10256 MA2 91425-A1		MA2,1&C 10255/10256 MA1 91426-1	MA2,1&C 10255/10256 MAC 91427-A
ML	PM/ML 12207 ML3&2 82207		PM/ML 12207 PM/ML 1&C 62207	
MM	MM3&2 12144/82144		ENGINEERING ADMINISTRATION 12147/82147	
MN	MN3&2 10166-E/80166		MN1&C 12432/82432	
MR	MR 12204-A MR3 72204	MR 12204-A MR2,1&C 82204-A		
MS	MS3 10090/80090	MS3&2 10267-A2	MS1&C 10268-A/80268	
MT	NONE			
MU	NONE			
NC(C)	NONE		NC(C) 1&C PART 1 13068 NC1&C PART 4 010-04-69-90	
NC(R)	NONE			NC(R) 1&C PT 1 13070 NC(R) 1&C PT 2 13071
OM	OM3&2 10215/70215-A	OM3&2 10215/80215-A	OM1&C 12217/82217	
OS	OS3 10105/80105	OS2 10106/80106	OS1&C 12126/82126	

# MANDATORY TRAMANS/NRTCS

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC  
Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
OTA	OTA3 10172/80172	OTA2 10173/80173	OTA1&C 10139/80139	
OTM	OTM 12471/82471			
PC	PC3 10223/80223	PC2 10222/80222	PC1&C 12602/82602	
PH	PH BASIC 12700/82700	PH MODS 2-4 373-02-45-83 373-03-45-83 373-04-67-88		NONE
PM	PM/ML 12207 PM3&2 72207		PM/ML 12207 PM/ML 1&C 62207	
PN	PN3 10249/80249	PN2 10250/80250	PN1&C 12606/82606	
PR	AMR FUNDAMENTALS 12010-A	PR2 10380/80380 AMR FUNDAMENTALS 12010-A	PR1&C 10330/80330 AMR SUPERVISOR 12011-A	
QM	QM3 10157	QM2 10158/80158-1	QM1&C 12122/82122	
RM	RM3 12800/82800	RM3&2 10228-H1	RM1&C 10229-H/80229-A	
RP	RP3&2 MODS 1-3 287-01-45-82 287-02-45-81 287-03-45-83		RP1&C 10239-A/80239	
SH	SH3 10176/80176	SH2 10177/80177	SH1&C 10287-F/80287	
SK	SK3&2 10269-K1		SK1&C 12652/82652	
SM	SM 12104 SM3&2 72104		SM 12104 SM1&C 82104	



# MANDATORY TRAMANS/NRTCS

Table 3.--Mandatory Rating-Specific TRAMAN and NRTC Requirements for All Ratings

RATING	TRAMAN/NRTC TITLES AND NAVEDTRA NUMBERS			
	E-4	E-5	E-6	E-7
STG	STG3&2 V1 10148/80148 STG3&2 V2 10149/80149		STG1&C 12484/82484	
STS	NONE	STS2 V1 10141/80141 STS2 V2 10142/80142	STS1&C 12488/82488	
SW	SW3&2 10653-G/80653 SEABEE COMBAT HANDBOOK V1 12003/82003		SW1 10654-E1/80654 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
TM	TM3 10168/80168	TM2 12435/82435	TM1&C 10164-D	
UT	UT3 12532/82532 SEABEE COMBAT HANDBOOK V1 12003/82003	UT2 10662/80662 SEABEE COMBAT HANDBOOK V1 12003/82003	UT1 10657-G1 80657-1 SEABEE PO1 10601/80601	SEABEE CPO 10600/80600-A
WT	WT3&2 10125-E1		WT1&C 10126-E/80126	
YN	YN3 10298/80298	YN2 10299/80299	YN1&C 12614/82614	